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for RETAILER — WHOLESALER — MANUFACTURER
DECEMBER 1, 1951

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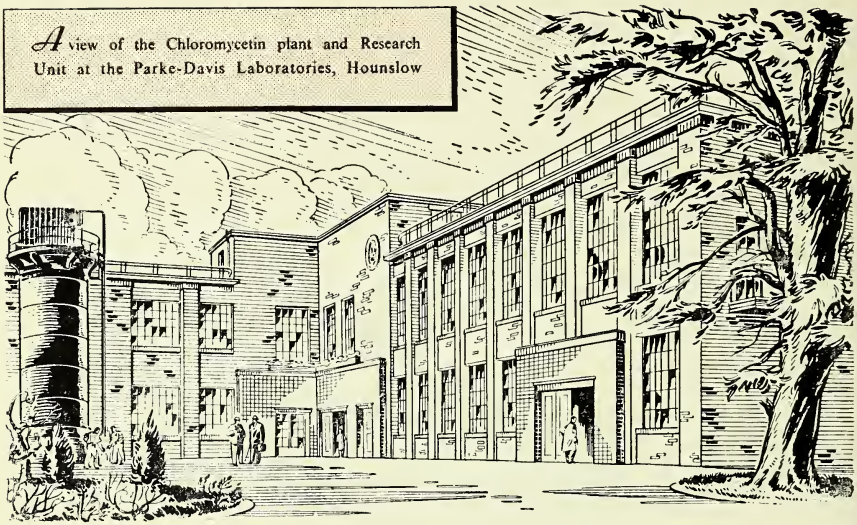
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The
CHEMIST AND DRUGGIST
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NEWS OF THE WEEK

Christmas Postal Arrangements.—Parcels and packets intended for inland delivery by Christmas Day must be posted not later than December 19. The minimum postage for printed matter sent out in an open envelope is now three-halfpence.

N.H.S. in October 1950.—Figures issued by the Joint Pricing Committee for England show that in England during October 1950 17,581,080 prescriptions (11,139,705 forms) were dispensed under the National Health Service at a total cost of £2,628,812.

Mail Services to Canada.—The Board of Trade reminds shopkeepers that articles purchased by tourists and sent to Canada by post are not entitled to exemption from Canadian Customs duties and taxes. The Board reminds exporters of possible delays with mail sent to Canada in winter by the sea route owing to the closing of the St. Lawrence river. Cheap air mail rates apply for second-class correspondence to Canada (4d. per ½ oz. for printed paper, commercial papers, samples, etc.).

Move for Joint Action.—Representatives of the Association of Pharmaceutical Employers, Association of Scientific Workers, Guild of Public Pharmacists, National Association of Women Pharmacists, National Pharmaceutical Union, Pharmaceutical Society of Great Britain, Registered Pharmacists Union, and Scottish Executive of the Society, met in London on November 26, at the call of the Council of the Pharmaceutical Society, to consider to what extent they might act together on matters of common interest. The discussions were preliminary, and it was agreed to hold another meeting on January 21 to consider the matter further after the representatives had had an opportunity to consult their organisations.

Chemists Federation.—A meeting of the Chemists Federation council was held on November 8, the president (Mr. N. Dewey) in the chair. Meetings of the C.F. Propaganda and Standards Committees were held the previous day. A report received of C.F. meetings held at Edinburgh, Glasgow, Inverness and Aberdeen and

addressed by the secretary, showed that at the four meetings 210 chemists attended. Min-Adren was added to the schedule of the C.F. agreement of Bleasdale, Ltd. The council examined further products which were accepted for inclusion in the C.F. list before the introduction of the C.F. code of standards. Further arrangements were made for the annual meeting of C.F. manufacturers which is being held in London on January 24, 1952. The names of the Phoenix International Distributors, Ltd. and of the product aspirin 309 were deleted from the C.F. list.

Drugs on Dentists' Prescriptions.—The Ministry of Health has extended the list of simple drugs which may be prescribed by dentists under the National Health Service to include calcium gluconate, chloral hydrate, and potassium bromide, and the list of compound drugs to include garg. pot. chlor. et phenol, B.P.C., and tablets ac. acetylsal. et phenacetin., B.P., calc. lact., B.P., casc. sagr., B.P.C., casc. sagr. co. B.P.C., phenacetin B.P., phenacetin., et caffein., B.P.C.; and troch. pot. chorat., B.P.C. Tablets of any single barbiturate (unadmixed with any other barbiturate or other drug) included in the National Formulary for the time being, capsules of quinalbarbitone, tablets or capsules of the single barbiturates amylobarbitone, amylobarbitone sodium and pentobarbitone sodium, tablets of any sulphonamide included in the National Formulary for the time being, except sulphaguanidine, succinylsulphathiazole, and phthalylsulphathiazole may also be prescribed by dentists. Executive Councils are circularising to all chemist contractors a complete schedule of the prescribed dental drugs including the above alterations which are effective from December 1.

Payment on Account for November.—The Ministry of Health has announced that the monthly payment on account to a chemist contractor (not being under contract for the supply of surgical appliances only) in respect of each prescription dispensed in November 1951, and until further notice, will be based on the chemist's average total cost per prescription (including container allowance) for December 1950, as certified by the Pricing Office, increased by the appropriate amount shown in the following scale:—(The average cost per prescription dispensed in December, 1950, is followed by the increase now allowed per prescription): Under 2s. 10d., 2d.; 2s. 10d. to under 3s. 11d., 3d.; 3s. 11d. to under 5s., 4d.; 5s. to under 6s. 2d., 5d.; 6s. 2d. and over, 6d. The adjustment is to allow for the rise in the wholesale price of certain drugs and appliances. The revised oncost allowance and dispensing fees will already have been taken into account during the pricing of December 1950 prescriptions. The calculation of the payment on account will be made on 90 per cent. of the adjusted average, rounded up or down to the nearest penny, subject to a minimum of 2s. Quarterly payments on account to dispensing doctors paid in accordance with the Drug Tariff, which include payment for prescriptions dispensed in November 1951, and subsequent months, will be adjusted similarly.

LOCAL NEWS

Staff Dinner in Aberdeen.—On November 2, more than 160 members of the staff of Moore Medicinal Products, Ltd., Aberdeen, with their guests, were present at the annual staff dinner and dance, presided over by the chairman, Councillor T. Scott Sutherland. A conference, attended by all representatives, was held during the following week-end.

London Staff Party.—The directors of E. Moss, Ltd., wholesale and retail chemists, Feltham, Middlesex, entertained their staff and visitors at a party in London on November 14. Entertainment comprised dancing and a cabaret. Directors present included Messrs. E. Moss (governing), H.



FIRST WEARER OF BADGE. — Mr. Gwilym H. Hughes (a member of the Pharmaceutical Society's Council) invests Mr. Gomer M. James with the newly presented chairman's badge of office at annual dinner and dance of the Rhyl Branch of the Society on November 13.

Moss (managing), K. Richardson (secretary), J. R. James, G. Harvey and S. Cox. The visitors included Messrs. H. Noble (secretary, National Pharmaceutical Union), G. B. Craddock (M.P. for Spelthorne), E. T. Taylor (sales manager, Yardley, Ltd.), J. K. McPhee (sales manager, Johnson & Johnson (Gt. Britain), Ltd.). During the evening Mr. E. Moss made a presentation to the fifth member of his staff to complete twenty-one years of unbroken service. The fact that five of their original colleagues (the staff then numbered fewer than thirty) were still on the staff made him feel particularly proud of his "family."

Address to Sunderland Students.—Mr. W. J. Tristram (vice-president of the Pharmaceutical Society) addressed a crowded meeting of the Sunderland Branch of the British Pharmaceutical Students' Association on November 22. The present, he said, was a good time to be entering pharmacy; prospects were bright. The pharmacist had the choice of a career in manufacturing or hospital as alternatives to retail practice. Largely because of the National Health Service the pharmacist could now have the opportunity of spending his time in the work for which he had been trained. The separation of dispensing from prescribing was almost complete and a considerable increase in purely pharmaceutical work had resulted. The Service was not administered bureaucratically. At all levels the professions were represented and he cited the work of the Central Health Services Council. The new Minister, Mr. H. F. Crookshank, at his first meeting with the professions, had stressed the importance of teamwork and co operation among all engaged in the Service.

SCOTTISH NEWS

Scottish Tariff Amendment. — A list of price revisions in the Drug Tariff applicable to Scotland and applicable from December 1 has been circulated by the Department of Health for Scotland.

Payments to Chemists.—The Pharmaceutical Standing Committee (Scotland) of the Pharmaceutical General Council (Scotland) has sent a letter to chemist contractors in Scotland dealing with overpayments (see *C. & D.*, November 3, p. 575). It quotes a letter from the Department of Health for Scotland which gives as the main reasons for overpayment: (a) The inclusion by error of the Pricing Bureau of doctors' stock orders in the basic month of April 1949; (b) the apparent fall in the average value of forms between April 1949 and April 1950; and (c) the payment to account in February 1951, at a time when, as has been subsequently proved, many chemists had been paid in full for those arrears months. The Standing Committe has asked Dr. McCall, with the help of an accountant, to carry out an investigation into a number of cases of overpayment. The cases chosen will be those involving the largest sums of money. A report will be ready in a few weeks, it is hoped. The repayments to the Department of Health for Scotland it has been agreed may be spread over a period of not less than six months, and longer in certain cases.

IRISH NEWS

Coleraine Talk on Advertising.—The North-east Ulster Chemists' Association meeting in Coleraine on November 19 heard a lecture on "The Effect of Marketing Research on Retail Trade" by Mr. William Rae.

Publicity for Education Policy.—"The Irish Press" of November 15 published an article entitled "New Training for Chemists. Full-time Study Plan," which outlined the new educational scheme of the Pharmaceutical Society of Ireland. The article was illustrated with a picture of the Society's new headquarters at Shrewsbury Road, Dublin.

Ulster Associates' Section.—Mr. E. G. Mackle, Ph.C. (chairman of the Associates' Section of the Ulster Chemists' Association), was re-elected for a second term at the November meeting of the Associates' Committee. His appointment was moved by Mr. J. Kerr. Other appointments were:—*Vice-chairman,* Mr. J. Kerr; *Secretary,* Mr. T. W. Creswell (re-elected); *Treasurer,* Mr. C. M. Ogle (re-elected); *Auditors,* Messrs. M. Moore and G. P. Taylor, *Representatives on the Joint Council,* chairman and vice-chairman (*ex-officio*), Miss M. Meneely and Mr. W. Abernethy. The following applications for associateship were approved:—Ph.C.: Miss Ruth McNeely; Assistants: Miss F. Webster, Messrs. F. G. Lee, J. J. Walsh, W. J. Shaw; Apprentices: Miss J. Hendron and M. Murray, Messrs. T. F. Muldrew, R. O. Sheldon, W. G. Thompson, S. Thompson, W. Woodside and S. Wright.

SALARIES OF PART-TIME PHARMACISTS

THE Ministry of Health announces that agreements have been reached by committee C of the Pharmaceutical Whitley Council on the salaries of part-time pharmacists and post-graduate pharmaceutical students in hospitals. For part time pharmacists payment is to be at the rate of 24s. per session of four hours, or 32s. if in sole charge, so long as the hospital is not included in the points calculation for the salary of a chief pharmacist elsewhere. The payment is to be confined to pharmacists (whether or not in sole charge) working not more than six sessions a week. Part sessions are to be paid *pro rata* to the nearest completed eighth of a session. Where the sessions exceed six (or equivalent parts) per week the payment is to be the proportion of the scale point that would apply to the pharmacist were he in the hospital service whole-time, as a basic grade pharmacist, or if a part-time pharmacist in sole charge, as chief pharmacist, category 1. Part-time pharmacists receiving higher rates than in the agreement will retain them so long as they remain in their present posts. The agreement takes effect from November 19, 1951.

The following agreement applies to post-graduate pharmaceutical students undergoing the course of practical training required before registration as a pharmaceutical chemist or a chemist and druggist. Payment is to be at the rate of £300 per annum, and London weighting at the following rates is to be paid to post-graduate pharmaceutical students employed at hospitals or health centres in the Metropolitan police area and the City of London: Age under 21, £10 per annum; 21-25, £20; 26 and over, £30. That agreement takes effect from October 1, 1951.

The Minister has approved both agreements.

LEGAL REPORTS

No Admissions and No Order. — A motion by British Ethical Proprietaries, Ltd., Bush Lane, London, E.C., for an injunction against Antigen Laboratories, Ltd., Great Portland Street, W.1, was mentioned in the Chancery Division, London, on November 27. For the plaintiffs, it was explained that the motion was to restrain alleged "injurious falsehood, infringement of trade mark, passing-off and breach of contract." Mr. Justice Roxburgh: "Do defendants admit committing injurious falsehood?" Counsel: "When the motion came before Mr. Justice Harman a fortnight ago defendants, without making any admission, offered an undertaking covering the first three branches of the motion. I was given leave to amend by raising the fourth branch. No evidence has been filed by the defendants, but they are prepared to continue the undertakings given, and also to add a further undertaking under the fourth heading. In the circumstances we desire that there should be no order on the motion except that the costs shall be costs in the action. The parties are anxious that the matter should be brought to trial as soon as possible. The action will not be ready for trial before March 1952." Counsel for the respondents: "We have agreed to undertakings. Although I have filed no evidence I have made no admissions whatever." His lordship accordingly made no order on the motion.

Fine on Obstruction Charge.—"For the first time on record" a chemist was charged at Northampton magistrates' court recently with refusing to allow inspectors of weights and measures to inspect his equipment, and for refusing to produce his equipment for examination. Mr. Herbert Austin Timms, M.P.S., Semilong Road, pleaded guilty and was fined £2 on each summons. The prosecution stated that, when two inspectors called at defendant's premises and asked to see his weights and measures, Mr. Timms said that his scales were in pieces for cleaning and he was too busy to put them together at that moment. He asked the inspectors to call next day. A little later the defendant sent a letter of apology explaining that when the inspectors called he was too busy dispensing medicines. This was a novel prosecution. For 116 years inspectors had had the power to enter premises to inspect weights and measures, and the element of surprise was most essential. It was not suggested that defendant had anything to hide. His equipment was subsequently examined and found to be absolutely accurate. For the defence it was represented that Mr. Timms was busy with prescriptions at the time the inspectors called and he "became rattled."

TOPICAL REFLECTIONS

The Latest Model

At last we have definite news (p. 681) of the clearing away of arrears in the pricing of National Health Service prescriptions. We read that not only are a month's prescriptions (presumably those of an average twelfth of a year) being priced in less than a month, but that the work can be transferred from one pricing office to another. The emphasis, at the opening ceremony of the Newcastle-upon-Tyne premises, was on the intention to make and keep the pricing bureau a model. If that resolve is to have meaning, some evidence should be forthcoming of improved methods in operation. [An article on the subject appears on pp. 720-21.—EDITOR]. It seems to me that, with the increasing tendency to prescribe proprietary articles, pricing should not involve so much detailed calculation as in former years, when official and semi-official chemicals and galenicals were in greater favour with prescribers. The present vogue for branded preparations in the service is serious in three respects. First, it tends to render prescribing more mechanical. Secondly, it indefinitely increases the cost of what is prescribed, for medical men are often unaware of the prices of branded medicaments, and are not interested in knowing them. Thirdly, it presents pharmacists with an awkward problem in keeping stock, new preparations being suddenly called for and possibly as suddenly discontinued. Progress in medicine must, of course, be respected; but it can be very expensive.

Skylarking Employees

In a timely editorial article (p. 690) you have cited a recent judgment of the Court of Appeal to the effect that, in the circumstances before the Court, the employers of a boy who had been injured as the result of a lark while at work were not liable to pay damages. The decision is reassuring. It would be deplorable if in all circumstances employers could be held liable for injuries caused by one employee to another. Your comments end, however, with a caution to heads of businesses against allowing the commission by their employees of acts that may be dangerous and may cause personal injury. In this aspect businesses may be divided into two classes, one comprising manufacturing and wholesale, the other retail. Discipline can, I think, be more easily maintained in those of the first class than in those of the second. In most wholesale houses the work is done in separate departments, with an overseer or foreman responsible for correct behaviour in each. But in a retail business, in the temporary absence of the proprietor, the task of supervision devolves on the senior assistant or some other nominee. It is questionable whether the scope of the authority possessed by this assistant or nominee, exercised fitfully, so to speak, is sufficient though we know it ought to be. A tightening up of the routine of a pharmacy in this matter may be desirable.

Patron Saints

Old discussions on appropriate names for the rôle of patron saint of pharmacy come to mind on reading the abstract of a paper headed "Kosmas and Damian Research" (p. 694). The accepted date of the martyrdom of Cosmas (the more usual spelling) and Damian is the year 303. There are other candidates. In the *C. & D.*, 1907.I.837 you discussed the claims of possible candidates: besides the two now mentioned, the names of St. Luke, St. Christopher and St. Nicholas were suggested. Six years later the (or a) patron saint of Japanese pharmacy was named; and in 1920 a correspondent proposed St. Eligius. The last-named worthy, unhappily, was already the patron saint of goldsmiths, blacksmiths, workers in many metals, and cabmen; by 1951 a few other vocations may have been added. "It seems wiser," you then wrote, "to turn to a genius not so heavily engaged." The nymph Pharmaceia, guardian of a well of toxic properties and referred to by Plato, was a further suggestion; and finally there was Pharmachos, a personage distinguished by having been stoned to death. The consoling thought arises that if pharmacy has to share Cosmas and Damian with the medical profession, it possesses names of its own respected internationally. Some of your subscribers have no doubt read with pleasure a paragraph in an article in "The Times" of November 24 giving the botanical names of five plants recorded by the late Dr. George Claridge Druce on or near Beinn Eighe in Ross-shire. They were discovered in spite of the attentions of "truculent gamekeepers." An area of the Highlands, including this mountain, has been purchased for the Nature Conservancy. ***Xrayser***

NEW COMPANIES

CHINBROOK PHARMACY, LTD. (P.C.).—Capital £3,000. To carry on the business of wholesale and retail chemists and druggists, etc. Horace N. Whalvin, M.P.S., and Gordon Harris, M.P.S., directors. R.O.: 107 Chinbrook Road, London S.E.12.

CLARKE & FYFE, LTD. (P.C.)—Registered in Edinburgh. Capital £7,500. To carry on the business of retail chemists and druggists, etc. G. H. Clarke, M.P.S., and James F. N. Fyfe, M.P.S., directors. R.O.: 7 Lint Riggs, Falkirk.

KAY'S (RAMSBOTTOM), LTD. (P.C.).—Capital £10,000. To acquire the business of soap and chemical manufacturers carried on by James Kay & Sons, Ltd., Britannia Works, Ramsbottom, Lancs. Florence M. Kay, James Kay, Frank M. Ashworth, Tom Yates, William Rogers and Alexander K. Crawshaw, directors.

F. H. BURSELL (CHEMISTS AND OPTICIANS), LTD. (P.C.)—Capital £650. To acquire the business of chemists and opticians carried on by F. H. Bursell (Chemists), Ltd., at 4 Carlton Terrace, London, E.7. Leonard A. C. Helmer, Frederick H. Bursell, M.P.S., Albert E. Mitchell, M.P.S., Ronald G. Williams, and Stanley Price, directors.

ROBERTS WINDSOR SOAP (HOLDINGS), LTD. (P.C.).—Capital £20,000. To carry on the business of a holding and investment company, etc. John H. Haynes and Wilfred Brown, subscribers. First directors are to be appointed by the subscribers. R.O.: Gladstone Works, Windsor, Berks. The holding company is a merger between Roberts Windsor Soap Co., Ltd., and Pure Products Soap Co., Ltd., Colwick, Nottingham. (The latter company has changed its name slightly in connection with the merger). The aims of the merger are a pooling of manufacturing and marketing resources. The identity of the two companies will be preserved though there is to be an exchange of directors—Mr. G. P. Waite (managing director, Roberts Windsor) joining the Pure Products board, and Mr. J. W. Hearnshaw (managing director, Pure Products) joining the Roberts Windsor board.

Company News

DRUG HOUSES OF AUSTRALIA, LTD.—Dr. T. F. West has been appointed to the board.

MONO CONTAINERS, LTD.—Profit for year to September 30 was £78,079 against £59,175 for the previous year.

RECKITT & SONS, LTD.—An interim dividend of 10 per cent. (same) is announced.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. J. D. Rose, M.A., B.Sc., has been appointed director in charge of the dyestuffs division.

G. O. WOODWARD & CO., LTD.—Messrs. G. O. Woodward, W. M. Woodward and E. H. Hill have been appointed directors (see below).

NEWTON, CHAMBERS & CO., LTD.—Mr. P. J. C. Bovill, B.Sc. (general manager of the chemicals branch) has been appointed a vice-chairman of the local board.

EVANS MEDICAL SUPPLIES, LTD. — An interim dividend of 3 per cent. (same as on smaller capital) is announced. Any adjustment of total dividend will be made in final dividend.

SOUTH AFRICAN DRUGGISTS, LTD.—Net profit for year ended June 30 was £156,292, an increase of £10,566 over the previous year. A dividend of 15 per cent. for the year, payable on December 20, will absorb £60,000 leaving £503,297 to be carried forward (against £429,005).

Voluntary Liquidations

J. J. BAXTER, LTD., chemical manufacturers, 11 Peter Street, Manchester, 2. Liquidator: Lawrence Clarke Williams, C.A. (of the same address).

CALMAG RESEARCH CO., LTD. (horticultural and industrial chemical products) Hickman Street, Wednesfield. Liquidator: Miss Lily Sabina Deacon, F.S.A.A., 87 Tettenhall Road, Wolverhampton.

BUSINESS CHANGES

SHELL CHEMICALS, LTD., 105 Strand, London, W.C.2, have appointed Mr. C. D. Callieu, O.B.E., D.S.C., marketing operations manager.

G. O. WOODWARD & CO., LTD., 144 Larkhall Lane, Clapham, London, S.W.4, have purchased C. F. Abel, Ltd., manufacturing chemists, Larkhall Works, Nunhead Green, Peckham, London, S.E.15.

WILLIAM MARTINDALE WHOLESALE, LTD., 14 Bruton Place, New Bond Street, London, W.1, have acquired Smith & Sons (Norwich), Ltd., wholesale druggists, 44 Magdalen Street, Norwich, Norfolk.

RESPONSIBILITIES OF A SUPERINTENDENT

At Sittingbourne, Kent, magistrates' court on November 12, what was described as the first case of its kind was brought against Wm. J. Peacock (Chemists), Ltd., 29 Market Square, Retford, who were fined £10 for an unlawful sale of poison at Sittingbourne on August 30. An application for £3 3s. legal costs was granted. Prosecuting for the Pharmaceutical Society, Mr. A. C. Castle said the case was intended to bring home to chemists the nature of the offence. It was alleged that the defendant company sold poison while—by not complying with one of the conditions of the Act—not being authorised sellers. The case should not involve, he said, any suggestion that the business was improperly run; he was probably going to agree with learned counsel (Mr. Croome-Johnson)—who pleaded guilty for the defendant company—that the offence might be described as technical.

The Pharmacy and Poisons Act, 1933, permitted a corporate body to be authorised sellers of poisons and to carry on a chemist's business. Under the 1908 Act, which permitted companies to carry on a chemist's business, one important condition was that the company should appoint a qualified chemist to be known as the company's superintendent, whose appointment must be notified to the registrar of the Pharmaceutical Society. A responsibility of the superintendent of a limited company was that he should be responsible for the management of the business so far as it concerned the keeping, retailing, dispensing and compounding of poisons. A second responsibility related to the control of the business. If not in personal control of the business, he was required to direct the manager so far as the retail sale of drugs was concerned. In this particular business, which was carried on by the defendant company at 39 High Street, Sittingbourne, there were two qualified chemists. From information given by Mr. Roberts, an inspector under the Pharmacy Acts, who called at the shop on August 30, it was clear that a Mr. Straw, who had been appointed superintendent and who lived in the north of England, had never been in the shop at all, had never written to the manager or been in communication with him, and had therefore not fulfilled his duties under the Act. The case was the first in which the Society had challenged a company by showing that in not complying fully with that condition it was disqualified. Mr. Castle asked for a conviction—he was not concerned, he said, with the penalty that would be imposed.

For the defendants, Mr. Croome-Johnson thanked Mr. Castle for the fair way in which he had put the case. He pointed out that, if the business had been owned by a private proprietor who lived in the north of England and owned a shop with a qualified manager in the south, the private proprietor would be under no obligation to visit the shop from one year to another. In the case of a limited company the position was different. The superintendent had to visit the place and see that the manager was doing what he should. They had two qualified men on the premises. Mr. Straw, who was appointed superintendent early in 1951, was appointed because the previous superintendent was the resident manager of the shop, lived on the premises, and was leaving shortly. The resident manager, who had been superintendent, continued at the shop, and in the circumstances Mr. Straw, who knew he was qualified, experienced and an ex-superintendent, did not at once go and see him. From March, when the manager left, to August, when "this very technical offence" took place, there was a period during which there was a temporary manager. He was an ex-superintendent of an associated limited company in Derbyshire and was well known to Mr. Straw. He had now gone. If Mr. Straw had come down and visited the shop in March, taken a look around it and gone away again, it might have been difficult for the Society to say that there had been any offence whatever. The company was a member of a small group of associated companies and they had been, from time to time, in touch with the Society seeking guidance with regard to superintendents and had been obtaining it. He said that in no spirit of reproach. Until a letter had been received on this case no complaint had been made about the matter from the Society at all. Imposing the fine the acting chairman said that the Bench was prepared to recognise the technical nature of the offence and was of opinion there had been negligence.

During the hearing Mr. W. J. Peacock vacated the chair, explaining that he did so because for twenty-five years his name had been associated with the business, though his holding now was small.

DEATHS

BROWN.—At his home, 49 Bull Ring, Ludlow, Salop, on November 22, Alderman W. J. Brown, Ph.C., aged seventy-nine. Alderman Brown, who had been ailing for some time, was found dead in his bath. He qualified as a chemist and druggist in 1895 and passed the Pharmaceutical Chemist examination the same year. In 1901 he commenced business on his own account in Ludlow, and on June 5 of the present year celebrated his Golden Wedding. Mr. Brown served on the Ludlow town council for twenty-eight years and was made an alderman in 1937. He was four times mayor, and in 1948 was made an honorary freeman of the borough. He is survived by his widow, a son and a daughter.

CLARK.—On November 17, Mr. James Clark, M.P.S., Dowhills House, Dowhills Drive, Blundellsands, Liverpool, 23, aged eighty-five.

COOK.—At 16 Drumlanrig Street, Thornhill, Dumfries, on November 21, Mrs. Mary Johnstone Cook (widow of the late Mr. Robert Cook, M.P.S., Thornhill), aged seventy-eight.

CORRIGALL. — On November 18, Mr. Peter Nixon Corrigall, M.P.S., 141 Beaconsfield Street, Newcastle-on-Tyne, 4, aged fifty-five.

COX.—At Petersfield, Hants, on November 15, Mr. Arthur Sambell Cox, C.B.E., B.Sc., barrister-at-law, formerly Assistant Comptroller, H.M. Patent Office, aged seventy-five.

ESSELMONT.—On May 25, Mr. Norman William Esslemont, M.P.S., Box 19, Chunga, Tanganyika Territory. Mr. Esslemont qualified in 1927.

FERGUSON.—On November 9, Professor Allan Ferguson, M.A., D.Sc., 88 Hadham Road, Bishop's Stortford, Herts, aged seventy-one. For ten years general secretary of the British Association and secretary 1928-38 and president 1938-41 of the Physical Society, he was a member of the Pharmaceutical Society's board of examiners for England and Wales from 1934 to 1946.

GIBSON.—On November 14, Mr. Harry Gibson, M.P.S., 6 Madoc Street, Llandudno, Carnarvons, aged eighty.

GORDON. — At 24 Fern Avenue, Newcastle-on-Tyne, on November 6, Mrs. Helen Martin Gordon (widow of the late Mr. Edward Gordon, M.P.S., Moss End, Lanarks).

GRINSTEAD. — On November 16, Mrs. Daisy Grinstead (wife of Mr. G. Loxton Grinstead, M.P.S., Edwenia, Oaklands Avenue, Saltdean, Brighton).

HATRICK.—At East Heath House, Wokingham, Berks, on November 6, Mr. William Lindsay Hatrick (formerly with W. R. Hatrick & Co., Ltd., Glasgow).

HUTCHEON.—On October 23, Miss Alice Burns Hutcheon, M.P.S., aged sixty-one. Miss Hutcheon had been in business as W. A. Brearey & Son, 10 Prospect Hill, Douglas, Isle of Man, since taking the business over on the death of her father in 1913 (one year after she qualified).

JOHNSTONE.—On August 18, Miss Rhona Elizabeth Ross Johnstone, M.P.S., 1 Seaforth Gardens, Dingwall, Ross. Miss Johnstone qualified in 1944.

LEWIS.—On November 8, Mrs. Emma Florence Lewis (widow of the late Mr. Richard Rice Lewis, Ph.C.), aged eighty-one.

MACE.—Recently, Miss Mary Edith Mace, Llanharan, Glam, aged twenty-seven. Miss Mace gained the dispensers' diploma of the Society of Apothecaries of London after studying at the Welsh College of Pharmacy, Cardiff, and had been practising for a short time.

MCKINLAY. — On November 15, Mr. Finlay McKinlay, M.P.S., 7 High Street West, Glossop, Derbys, aged sixty-four.

SAWYER. — At Oakland, California, U.S.A., recently, Dr. Wilbur A. Sawyer, elaborator of the first successful yellow fever vaccine, aged seventy-two.

WILLS

MR. W. E. TANNER, M.P.S., 36 Station Road, Chingford, London, E.4, left £5,345 (£3,493 net).

MR. J. T. BRIGGS, M.P.S., 42 Market Street, Carnforth, Lancs, left £11,089 (£9,842 net).

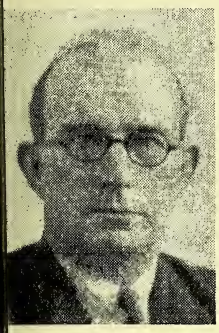
MR. G. WILSON, M.P.S., 32A Brookfield Gardens, West Kirby, Cheshire, left £4,729 (£4,666 net).

ALDERMAN A. J. GILLIAN, 38 The Hollands, Worcester Park, Surrey (founder and former general secretary of the Chemical Workers' Union), left £337.

PERSONALITIES

Mr. R. E. Twelves, M.P.S., Mansfeldt Road, Newbold, Chesterfield, has been admitted to Chesterfield Royal Hospital.

Mr. David Currie, M.P.S., J.P., Glasgow, who has been appointed chairman of committee C of the Pharmaceutical Whitley Council, is chief pharmacist at Foresthall Hospital, Glasgow. He has been a member of the council of the Guild of Public Pharmacists for many years, and was for three years its president. He is a member of the Guild's team in the Joint Negotiating Committee in England and Wales and of the National Joint Committee for staffs in Health Services in Scotland. He was vice-president for four years of the Clerical and Administrative Workers' Union; a member of the board of management of the Glasgow Northern Hospitals; the first pharmacist member of the council of the Scottish Trades Union Congress; and a former member of the Pharmaceutical Standing Advisory Council to the Scottish Health Services Council. He served his apprenticeship in retail in Glasgow, and qualified in 1928. He entered hospital pharmacy after retail experience in Glasgow and Comrie, Perths, and manufacturing experience with W. & R. Hatrick, Ltd., Glasgow.



Dr. Max Theiler has been awarded the Nobel prize for medicine, 1951, for his development of the first effective vaccines against yellow fever. A citizen of the Union of South Africa, Dr. Theiler has been with the international health division of the Rockefeller Foundation, New York, U.S.A., since 1930.

Dr. Stanley White (director of the department of clinical investigation, European branch, Parke, Davis & Co., Ltd.,) has recently returned from a visit to Malta, Cyprus, Athens, Istanbul and Beirut. In the Lebanese capital Dr. White participated in a second Middle East medical symposium which was held at the American University.

Royal Medals for 1951 have been awarded by the King on the recommendation of the council of the Royal Society to Sir Howard Florey (professor of pathology, University of Oxford) for distinguished contributions to pathology and for his work on penicillin and other antibiotics; and to Sir Ian Heilbron for his contributions to organic chemistry, notably in the field of vitamin A and polyene synthesis.

Alderman Edwin Thompson (governing director, Thompson & Capper Wholesale, Ltd., Speke, Liverpool), who received a presentation from his staff recently (see p. 715) is a member of the council of Liverpool University and a former president of the Society of Chemical Industry. He was lord mayor of Liverpool in 1930-31 and High Sheriff of Lancashire 1944-45. He is a member of the Council of the Duchy of Lancaster.

Mr. John Charlton (superintendent, Newcastle pricing bureau (see p. 720) has had experience in pharmacy and statistics since 1928 (when he was apprenticed with Mr. J. W. Baxter, Corbridge, Northumberland, his native town). At the beginning of the war, after working for a number of years with W. Smith (Chemist), Ltd., Durham, he joined the Royal Army Medical Corps where he became engaged on medical statistics. Later, after experience at the main branch of Boots, Ltd., in Newcastle, he was appointed deputy superintendent of the Durham City Pricing bureau in 1948. Mr. Charlton was appointed to his present post in Newcastle on May 1, 1951.

Messrs. Evelyn Arthur and Walter Hugh Smith, M.sP.S., who were in partnership at 75 High Street, Camberley, have retired after thirty years in one business. They were born in Glastonbury and in their retirement will be parted for the first time. They studied medicine at Bath College and eventually became managers of two Weston-super-Mare pharmacies conducted by the same firm. During the 1914-18 war they worked together at London University dealing with poison gas. They went to Camberley in 1921. Mr. E. A. Smith will indulge his hobby of photography in retirement—he was chairman of Windlesham Camera Club for three years—and will live at Merrow. Mr. W. H. Smith is remaining in Camberley for the present.

TRADE NOTES

No Other Maker.—On another page Vosemar, Ltd., California Works, Lord Street, Bury, Lancs, point out that they are the sole manufacturers of Curly Top, Curlex and Vosene hair preparations. At no time have they been associated with other makers issuing similar products.

Bonus Offer. — During the winter months the Velvet Crêpe Paper Co., Ltd., manufacturers of Velvet handkerchief tissues, are offering free to stockists a set of display material for window or counter and a bonus parcel worth 9s. 6d. at retail prices. A Nation-wide publicity campaign for the product is in operation, part of an all-out effort to put the public "on Velvet."

Photographic Papers more Plentiful.—Kodak, Ltd., Wealdstone, Harrow, Middlesex, announce that, as a result of increased production at their Harrow factory, they have been able to deal with most outstanding orders for Kodak bromide and Bromesko photographic papers. Packings and sizes suitable for small and large users are available, though it is still possible that a particular size or grade may not be immediately forthcoming.

Syringe Needles From Germany.—In reintroducing "one of the best-known German ranges of injection needles of pre-war days" Whitley & Co. (Manchester), Ltd., 19A Corporation Street, Manchester, 4, offer record and Luer mounted hypodermic and serum needles in rigid transparent pack of twelve needles. Many special-purpose needles are available for early delivery; they may be obtained under customers' own or makers' brand, or unbranded. Special terms are offered to syringe makers.

"Overaged" Ampoules.—J. F. Macfarlan & Co., Ltd., Edinburgh and Boreham Wood, state that, from December 1, ampoules of Opoidine brand papaveretum, B.P.C. 1934, are being issued with a content of 1.1 c.c. of solution instead of 1 c.c. as previously. The strength of the product has not altered, and the dosage continues to be "per 1 c.c.", the change in ampoule content having been made in accordance with the Addendum, 1951, to the British Pharmacopœia, 1948. To comply with D.D. requirements the actual quantities obtained by the chemist must be recorded.

New Products and Packs.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have introduced two new preparations containing chloramphenicol, B.P.; Alfi cetyn eye ointment, with a content of per cent., in 6o-gr. tube, and Alficety suppositories each containing 0.125 gm. c 0.25 gm. chloramphenicol, B.P., in box c five. Messrs. Allen & Hanburys have als introduced Scoline, a muscle relaxant c which each 2 c.c. contains 100 mgm. suc cinylcholine chloride. The new product issued in boxes of six and 100 ampoule —Organon Laboratories, Ltd., Bretter ham House, Lancaster Place, Londor W.C.2, have issued Stenediol tablets, eac containing 10 mgm. methylandrostenedio an orally active relative of methyltesteron B.P., that assists the utilisation of protei supplied in food. The property is of valu in wasting diseases and convalescence aft long illness. Masculinisation is stated n to be induced in the dosage recommende

PRICE CHANGES

(I.R.P.=Inclusive retail price)

	Doz. s.	d.	Tax %	I.R. s.	d.
Allen & Hanburys, Ltd.					
Allenburys teat one hole (fine or ordinary) one and three leech-bite, half-size teat and cherry-top ...	6	0	Nil	0	
Allenburys valves	5	0	Nil	0	
Roberts & Co. (from November 23)					
Solucamphre ampoules, 6 x 2-c.c.	48	0	33⅓	6	
Tiodine pills 50's	40	6	33⅓	5	
Menley & James, Ltd. (from December 1)					
Eskacillin 50 2 fl. oz. ...	108	0		12	

PROPRIETARY ARTICLES TRADE ASSOCIATION

Alterations to Protected List (Part 1)

Allen & Hanburys, Ltd.					
Lysantol gargle, 4-oz. ...	16	4	33⅓	2	
John Bell, Hills & Lucas, Ltd. (for December					
Cold capsules	11	6	33⅓	1	1
Cresyl Bell liquid 4-oz.	12	0	Nil	1	
16-oz.	36	9	Nil	5	
The British Drug Houses, Ltd.					
Peptet tablets	12	0	33⅓	1	1
Sanusin Sempules ...	30	0	33⅓	4	
Edwin Burgess, Ltd. (In Gt. Britain and Northe Ireland from December 1)					
Lion ointment and pills—					
1-oz.	12	0	33⅓	1	
3-oz.	27	0	33⅓	3	
16-oz. each	10	0	33⅓	15	
36-oz. each	17	10	33⅓	29	
Medo-Chemicals, Ltd. [Corrected note]					
Orapenicil G tablets, (200,000 international units) 10's	90	0	Nil	11	
Silten, Ltd.					
Leucotropin tablets 20's	42	9	Nil	4	
100's	192	0	Nil	21	
veterinary injection, 30-c.c.	49	6	Nil	5	
100-c.c.	138	0	Nil	15	

COMING EVENTS

Sunday, December 2

ONDON PHARMACY RAMBLERS, Ramble to chalk country around Manuden, Herts. Coach from Charing Cross (Embankment), at 9.30 a.m.

Monday, December 3

HARMACEUTICAL SOCIETY, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. C. H. Hampshire on "The International Pharmacopœia."

LE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Ambassadeur restaurant, Turner Street, Ramsgate, at 8 p.m. Mr. G. A. Stephens (The British Drug Houses, Ltd.), on "Sex Hormones."

UTHGATE AND WOOD GREEN DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION and BRANCH, Windsor Café, 398 Green Lanes, Palmers Green, London, N.13, at 7.30 p.m. Mr. G. H. Armitage on "Pharmaceutical Topics of Today."

Tuesday, December 4

RMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Grand Hotel, Birmingham, at 8 p.m. Mr. F. L. Cann on "Forensic Science and the Chemist."

RIGHTON AND HOVE BRANCH, PHARMACEUTICAL SOCIETY, Cook's Hotel, Old Steine, Brighton, at 8 p.m. Film. Mr. R. W. Richards (Ciba Laboratories, Ltd.), on "The Making of Modern Drugs." Refreshments at 7.30 p.m.

AST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, and WALTHAMSTOW PHARMACEUTICAL ASSOCIATION, Conway Hall, High Street, Walthamstow, at 8 p.m. Mr. B. J. Thomas on "Aseptic Dispensing and Sterilisation."

DINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Members' night.

ORTH LONDON PHARMACEUTICAL ASSOCIATION and BRANCH, Beale's Restaurant, Holloway Road, London, N.7, at 7.45 p.m. Mr. C. Beaven on "Recent Antibiotics." Film: "Chloromycetin."

HARMACEUTICAL SOCIETY OF IRELAND, BENEVOLENT FUND COMMITTEE, Gresham Hotel, Dublin, at 10 p.m. Dance. Ticket 21s.

OMEN'S SECTION, LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Capitol Ballroom, Meanwood, Leeds, at 8 p.m. Dance in aid of the Society's Benevolent Fund, etc. Ticket 5s. from Miss P. Branson, 424 Stonegate Road, Leeds, 7.

Wednesday, December 5

ANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, Junior Branch, Council Chamber, Manchester, at 7.30 p.m. Whist drive.

ORWICH BRANCH, PHARMACEUTICAL SOCIETY, Y.M.C.A., St. Giles' Street, Norwich, at 7.15 for 7.45 p.m. Dr. R. Hodgkinson on "-Chloromycetin." Film.

OTTINGHAM LADIES COMMITTEE, BRITISH PHARMACEUTICAL CONFERENCE, Y.M.C.A., Shakespeare Street, Nottingham, at 7 p.m. Meeting and "Bring and Buy" sale.

ETERBOROUGH CHEMISTS' ASSOCIATION and BRANCH, Gas showroom, Church Street, Peterborough, at 8 p.m. Mr. A. R. G. Chamings on "The Cortisone Story."

LYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Duke of Cornwall Hotel, Plymouth, at 7 for 7.30 p.m. Annual dinner and dance. Ticket 18s. 6d., from Mr. K. J. Wadge, 9 Dunclair Park, Laira, Plymouth.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Kimbell's Clifton Ballroom, Osborne Road, Southsea, at 7 p.m. Annual dinner and dance. Ticket 21s., students (dance only) 10s. 6d., from Mr. A. W. Dempey, Evans Chemists, Guildhall Square, Portsmouth.

Thursday, December 6

BOLTON PHARMACEUTICAL ASSOCIATION, Reform Club, Bowkers Row, Bolton, at 7.30 p.m. Dr. G. B. Manning (consultant pathologist to Bolton Royal Infirmary and to the Home Office) on "Some Experience in Forensic Medicines With Special Reference to Poisoning."

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Royal County Hotel, Old Elvet, Durham City, at 7.30 p.m. Mr. A. A. Meldrum (a member of the Society's Council) on "Current Pharmaceutical Topics."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fullers' Café, Parliament Street, Harrogate, at 7.30 p.m. Miss A. Lothian (librarian of the Society) on "Pharmaceutical Antiquities."

HULL CHEMISTS' ASSOCIATION and BRANCH, New York Ballroom, Hull, at 7.45 p.m. Annual dinner and dance in aid of the Society's Benevolent Fund. Ticket 18s. 6d.

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Dr. H. G. Hind (Evans Medical Supplies, Ltd.), on "The Birth of a New Drug—The Biochemist."

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Christ Church Hall, The Cloisters, Sunderland, at 7.30 p.m. Mr. H. W. Tomski on "Economics in Pharmacy."

Friday, December 7

EXETER BRANCH PHARMACEUTICAL SOCIETY, Providence Church Hall, Exeter, at 7.30 p.m. Dr. J. M. Rowson on "The Work of the Museum of the Society."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION and BRANCH, A. J. Carpenter's restaurant, 3 The Pavement, London, S.W.4, at 7.45 p.m. Mr. P. Johnson (chief perfumer, Goya, Ltd.), on "Perfumery and Pertumery Raw Materials." Miss N. Hewland on "Colour Harmony in Cosmetics."

GIFT TO EMPLOYER

AT a ceremony held at the company's factory on November 15, the 150 employees of Thompson & Capper Wholesale, Ltd., manufacturing chemists, Speke, presented their governing director (Alderman Edwin Thompson, J.P.) with a solid silver cocktail shaker on a silver salver to mark his seventieth birthday. Alderman Thompson's crest and motto, "*In Lumine Luce*," were engraved on the present. The presentation was made by Miss Meryl Madine, supported by the longest serving employee (Mr. A. Little, head tablet maker). A sheath of flowers was presented to Mrs. Thompson, and later in the day Mr. Thompson gave to each woman employee a combined powder compact and lipstick and to each man a silver cigarette case.

ULSTER CHEMISTS' ASSOCIATION

An increase in membership from 558 to 586 was commented upon from the chair by THE PRESIDENT (Mr. C. A. Quinn) at the annual general meeting of the Ulster Chemists' Association in Belfast on November 21. The increase, following that of the previous year, had created, he said, a larger volume of work and necessitated an addition to the office staff, which was now responsible, with the Executive Committee, for a great deal of complex administration. He paid tribute to the secretary (Miss A. E. Strachan) and her staff.

On the work of the local associations, the president said he had attended several meetings during the year and was glad to see the display of enthusiasm and comradeship. The Associations were helpful to the Executive Committee, which gained through them a view of local conditions. He urged members in areas without local associations to get together, and promised the help of the main Association.

Mr. Quinn went on to refer to the protection afforded to chemists by membership of the Chemists' Defence Association, or by a similar method of insurance. Since the introduction of the Health Service, pharmacists had had to cope with a larger volume of dispensing, and during the winter months (as in January), the impact of influenza placed a much heavier responsibility on dispensers of medicine. In such circumstances accuracy and the routine safeguards must be maintained while the time required for dispensing had to be shortened. He did not know of a case where a serious error had occurred but in view of their legal liabilities and responsibilities under Health Service contracts, he recommended chemists to protect themselves by insurance.

Price Maintenance

Mr. Quinn said he thought that retail price maintenance would be reviewed by the present Government if it showed a possible means of tackling the increased cost of living. For that reason he felt that the Association, in common with their friends in Great Britain, should state the case against the abolition of price maintenance. Chemists had to stock a full range of medicines; they could not select the popular quick-turnover proprietaries and refuse to stock others less popular. The maintenance of a price showing a just and fair profit on all lines enabled them to pay their staffs a decent wage and maintain employment. The abolition of price maintenance opened the door to price cutting on those popular lines by traders who might use them as bargains to promote the sale of other goods. The chemist was not in a position to compete with those traders, and would have to cease selling those lines. That would affect the confidence of the public in established products. "Some of the abuses of monopolies are due for correction but in our opinion the complete abolition of price maintenance can only create a chaotic condition in retail trade."

Annual Report

The annual report stated that the financial position had been reviewed by the Executive Committee and, owing to increases in cost of printing and stationery and a 50 per cent. rise in cost of postage of circulars, together with the increased subscription per member to the Chemists' Federation, they had no alternative but to recommend an increase in the subscription to members to £3 3s. per shop (£1 11s. 6d to registered druggists). A proposal on those lines made by THE TREASURER (Mr W. J. Rankin), and seconded by MR. JOHN MCGREGOR, was agreed to. The annual report was adopted on the motion of MR W. R. MCNABB, seconded by MR. H. MCQUITTY, and the financial statement on the motion of MR. J. CALWELL, seconded by MR. W. J. MOFFETT.

The PRESIDENT declared the result of the election to fill eight vacancies on the Executive Committee as follows:—Miss C. E. Culbert (224 votes); Messrs. R. A. McEwen (224); A. Templeton (222) W. R. McNabb (221); W. L. McDonnell (220); W. J. Moffett (206); A. E. Johnston (158); James Paul (153), who were declared elected; and Mr. F. J. Sweeney who received 72. There were 235 valid votes. A number of amendments to the rules of the Association proposed by MESSRS. P. R. W. SHINNER and RANKIN were approved. A vote of thanks to Mr Quinn for his services as president was moved by MR. MCGREGOR, seconded by MR. MCNABB, and cordially passed. MR QUINN, in his reply, thanked the members of the Executive and the staff for their support. The treasurer, auditors (Messrs J. A. McRoberts and Joseph Wellwood) and office staff were thanked by MESSRS H. F. MOORE and MCQUITTY.

LONDON MEDICAL EXHIBITION

THE London Medical Exhibition opened on November 19 and closed on November 23. There were over a hundred exhibitors and a number of new products were on view. The exhibits are summarised:—

ABBOTT LABORATORIES, LTD.: Abbocillin, a mixture of crystalline penicillin G and procaine penicillin G supplied in single-dose vials with an ampoule of sterile water for giving a high initial blood concentration and forty-eight hours' repository action; Sucaryle (again available).

ADELPHI MANUFACTURING CO., LTD.: A new pipe-type bottle washer suitable for washing anything from a "sprinkler neck" to a carboy.

ALLEN & HANBURYS, LTD.: Alficetyn eye ointment containing 1 per cent chloramphenicol for treatment of many acute and chronic inflammatory conditions of the conjuctiva; Alficetyn suppositories containing for infants 0.125 gm. chloramphenicol and for adults and older children 0.250 gm. chloramphenicol, for treatment of whooping cough, typhoid fever, dysentery, undulant fever and pneumonia; Scoline, 2-c.c. ampoules containing 100 mgm. of succinylcholine chloride, for intubation and electro-convulsive therapy.

ALLIED LABORATORIES, LTD.: Ascon, a fluid antacid, analgesic and antispasmodic.

ANGLO-FRENCH DRUG CO., LTD.: Sodium gentisate (sodium 2:5-dihydroxy benzoate) tablets for acute articular rheumatism and rheumatic fever.

ARMOUR LABORATORIES: The penicillin inhalator which is "loaded" with a capsule of potassium penicillin for inhalation therapy; and liver and yeast concentrate in the form of Glanules.

BAYER PRODUCTS, LTD.: Levophed brand of *l*-noradrenaline, ampoules containing 4 mgm. in 4 mils, for maintenance of blood pressure in acute hypotension; Neophryn aqueous isotonic solution containing 0.25 per cent. of the active principle, a sympathomimetic drug, for intranasal use in congestive conditions.

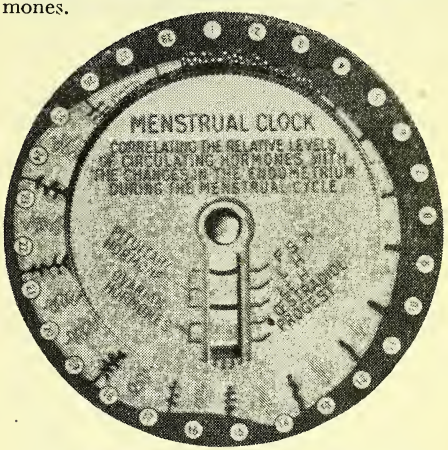
BENGER LABORATORIES, LTD.: Benecardin, a preparation of khellin in tablets, and 10 per cent. salt-free dextran for nephrotic œdema and toxæmia of pregnancy.

BENGUE & CO., LTD.: Stago solution for treatment of cellular disorders of the liver.

F.A.I.R. LABORATORIES, LTD.: Rotercholon dragees, a synergistic combination for gall bladder and allied disorders.

BOOTS PURE DRUG CO., LTD.: Fenox nasal drops containing phenylephrine hydrochloride, naphazoline nitrate and chlorbutol in a vehicle with approximately the same *p*H, tonicity and viscosity as normal nasal secretion; micro-fine barium sulphate—Boots, a special grade of barium sulphate of uniformly small particle size (0.1 to 0.3μ).

THE BRITISH DRUG HOUSES, LTD.: Aqueous suspensions of B.D.H. sex hormones.



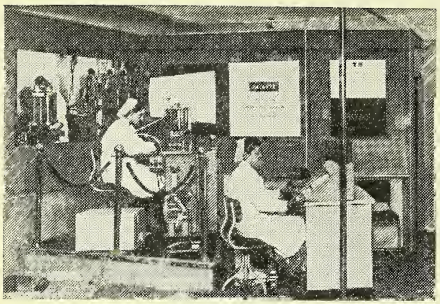
"Menstrual clock," produced by British Schering, Ltd., from the device featured by Dr. Peter Bishop in his book "Gynæcological Endocrinology." The "clock" is intended to help general practitioners in explaining to female patients the elementary facts of the menstrual cycle and as an aid to the teaching of endocrinology at medical and nursing schools.

BRITISH SCHERING, LTD.: Ethidol sedative compound tablets, combining ethinyl œstradiol with phenobarbitone, for treatment of menopausal patients. On the wall of the stand was fixed a "menstrual clock" correlating the relative levels of circulating hormones with changes in the endometrium during the menstrual cycle. Visitors were presented with pocket versions of the clock.

BURROUGHS WELLCOME & CO.: Kemadrin brand *dl*-1-*cyclo*hexyl-1-phenyl-3-pyrrolidino-propan-1-ol hydrochloride, a new treatment for parkinsonism.

CALMIC, LTD.: Cimlac gauze, a non-toxic wound dressing; and Drapolene cream for the prevention and treatment of urinary ammonia dermatitis.

CIBA LABORATORIES, LTD.: Dibistin tablets containing Antistin and Pyribenza-



Girls working at Pashet (PAS cachet) machines on the stand of Herts Pharmaceuticals, Ltd.

mine; Nupercaine cream; Privine emulsion with Cibazol; and Trafuril cream for rheumatic conditions and mild peripheral vascular disorders (e.g., chilblains).

Coates & Cooper, Ltd.: Antemin cream, a spermicidal, non-irritant vaginal cream containing sodium dioctyl-sulphosuccinate, boric and ricinoleic acids; chicken embryo granules in ampoules for oral administration in general debility and convalescence; and Intermidine, melanophoric hormone of the intermediary pituitary lobe in sterile isotonic solution for the treatment of retinitis.

Continental Laboratories, Ltd.: Acimetion tablets containing *dl*-methionine for the treatment of hepatic cirrhosis, toxic hepatitis, jaundice, secondary anæmias and malnutrition.

Distillers Co. (Biochemicals), Ltd., showed Distivit B_{12} and antibiotics.

The Crookes Laboratories, Ltd.: ACTH, etc.

Duncan, Flockhart & Co., Ltd.: Xylocaine ointment containing 5 per cent. of xylocaine in water-miscible base for topical anæsthesia; Xylocaine sterile isotonic spray solution containing 4 per cent. xylocaine in 25-mil bottles.

Fassett & Johnson, Ltd.: Formacaine surface-anæsthetic throat tablets to give rapid relief from throat discomfort. Manufactured by Therapeutic Products, Ltd.

Edward Gurr, Ltd.: Vaginal smear stain MF4 for the rapid differential staining of cornified and non-cornified cells in vaginal smears; Caistalite, a clear synthetic xylol-miscible mountant; and Carbochrome ink for injection into experimental animals.

Evans Medical Supplies, Ltd.: Bitevan vitamin B_{12} concentrate in 1 mil ampoules containing 20, 50 and 100 μ gm.; Pularin brand of heparin, Rondase (hyaluronidase), and a range of liver preparations, etc.

Glaxo Laboratories, Ltd.: Estopen suspended whooping cough vaccine, Glaxo; Cytacon, etc.

Hanovia, Ltd.: The Chromatolite, an apparatus designed under advice from Dr. E. R. Holiday (Medical Research Council Spectrographic Unit) chiefly for the fluorescence examination of chromatograms.

Harker, Stagg, Ltd.: Procid pessaries containing sodium propionate in special compressed hydrophilic base.

Herts Pharmaceuticals, Ltd.: Salicylamide, H.P.L., for the treatment of rheumatic diseases; and Spongostan, sterile gelatin sponge for hæmostatic control. Cachet filling and packing by machinery was demonstrated.

C. J. Hewlett & Son, Ltd., Hewœstrol, a flavoured ethinylœstradiol elixir; and S.B.T. brand sterilised solution, a bismuth injection for treating arthritis.

Imperial Chemicals (Pharmaceuticals), Ltd.: Cetavlex cream containing 0.5 per cent. w/w cetrimide, B.P.C., in water-miscible base, for preliminary treatment of wounds and burns and treatment of skin infections; Avloprocil N.A., a fortified procaine penicillin G preparation forming an aqueous suspension when water is added.

Eli Lilly & Co., Ltd.: 0.5 gm. PAS in Enseal presentation for maintaining dosage during the night and for eliminating unpleasant side effects.

May & Baker, Ltd.: Avomine brand promethazine 8-chlorotheophyllinate for prevention and treatment of travel sickness; Nivaquine brand chloroquine sulphate for malaria; Vegolysen T brand hexamethonium bitartrate; and Brulidine cream, an anti-infective preparation for local application.

Menley & James, Ltd.: Furacin soluble dressing, an ointment type of preparation, active against gram-positive and gram-negative organisms, and capable of withstanding autoclaving.

Don S. Momand, Ltd.: A new bulk pack of Clinitest tablets available to hospitals and laboratories only.

Moore Medicinal Products, Ltd.: Uniprin tablets of calcium aspirin evolved by Clinical Products, Ltd.

H. R. Napp, Ltd.: Fortior capsules containing B complex and C vitamins and mineral salts.

Oppenheimer, Son & Co., Ltd.: Barbalphin Pulverettes containing ephedrine, phenobarbitone, aminophylline, Alphidine

(non-toxic iodine), and calcium monacid phosphate, for asthma.

ORGANON LABORATORIES, LTD.: Stenediol brand methylandrostenediol (closely allied chemically to methyltestosterone B.P.) for treatment of wasting, loss of weight or negative nitrogen balance. Tablets each contain 10 mgm.

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ORTHO PHARMACEUTICAL, LTD.: Ortho set in new "zip kit."

PARKE, DAVIS & CO., LTD.: Chloromycetin capsules in pack of 100.

RECKITT & COLMAN, LTD.: Surgical Dettol for sale to doctors. A new preoperative skin cleanser, coloured blue or orange for choice.

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SANDOZ PRODUCTS, LTD.: Hydergine, a new drug derived from ergot alkaloids in sublingual tablets for the treatment of hypertensive and peripheral vascular diseases.

SHARPE & DOHME, LTD.: Hyotole, an elixir containing vitamin B complex, folic acid, choline liver and iron for children and adults.

T. J. SMITH & NEPHEW, LTD.: Paragon permeable-film adhesive dressings in three sizes, providing a protective covering with a transparent "window" so that a dressed wound may be inspected.

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A. WANDER, LTD.: Asmac tablets for the control of chronic bronchial asthma.

WARD, BLENKINSOP & CO., LTD.: Pavacol, a papaverine-codeine cough syrup; and Penotrane pessaries for trichomonal vaginitis and moniliasis.

WILLIAM R. WARNER & CO., LTD.: Tablets of Diatrin, an ethylene diamine compound with antihistaminic properties.

Also exhibiting were A. & R. SCOTT, LTD.; JOHN WYETH & BRO., LTD.; KEEN, ROBINSON & CO., LTD.; Cow & Gate, LTD.; and a number of other exhibitors showed items previously described.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

SIR THOMAS MOORE asked the Minister of Food on November 19 the present position of the proposed legislation to amend the law relating to food and drugs, and what arrangements had been made for prior consultation with the interests concerned. MAJOR GWILLYM LLOYD GEORGE replied that he was considering with the Minister of Health and the Secretary for Scotland the possibility of amending the Food and Drugs Acts but it was not yet possible to make a statement. Any proposals would be the subject of the usual consultations with the interests concerned.

Roll Film Imports

Figures given by MR. H. L. D'A. HOPKINSON (Secretary for Overseas Trade) to MR. G. JEGER in a written reply on November 20 showed that the highest imports into Britain of roll film and film packs during the period January to September, 1951, were from Canada (value £152,176); Italy (£68,703); Belgium (£56,298); France (£40,555) and Western Germany (£9,014).

MR. D. T. LLEWELLYN (Under Secretary of State) told MR. B. JANNER on November 21 that the sale of strychnine for poisoning animals was prohibited by the Poisons Rules except that it might be obtained for poisoning seals and moles on the production of a written authority. The Committee on Cruelty to Wild Animals had recommended that their relaxation of the rules should be reviewed, and the Committee's recommendations were being examined.

Health Centre Policy

MR. H. CROOKSHANK (Minister of Health) told Mr. R. E. Winterbottom on November 22 that discussions were proceeding between representatives of his Department and the British Medical Association with a view to settling a model form of contract for doctors in health centres.

Health Service Economy

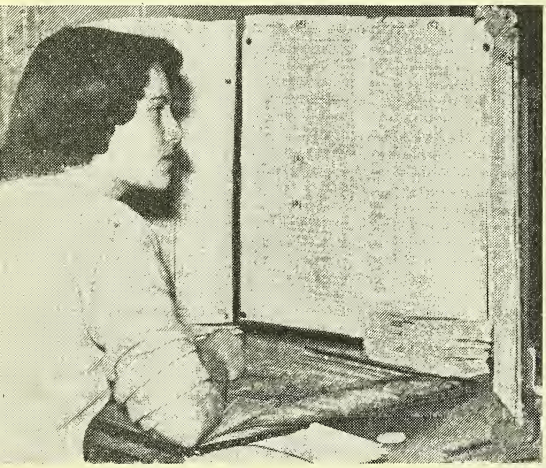
MR. A. C. BOSSOM asked the Minister of Health on November 22 if he would set up a working party to review the Health Service to see where it could be improved.

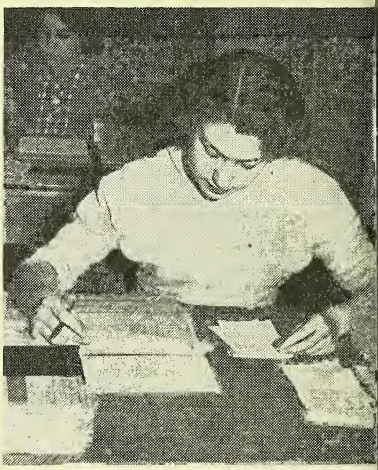
MR. H. CROOKSHANK: No.

HOW THE NEW "MODEL" PRI



Latest recruits in action. Absence of screens gives the supervisor an unimpeded view and adds to attractiveness of the pricing room (compare an " old type " bureau, bottom right).





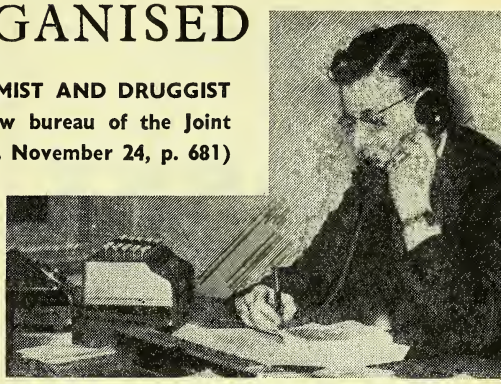
Instead of the pricing chart attached to a screen (at left) as used at Durham (below, right) and elsewhere a pricer at Newcastle (right) uses a flat file. Below, left: Pricing teachers at Newcastle.





BUREAU IS ORGANISED

A member of the editorial staff of the CHEMIST AND DRUGGIST describes the methods being used at the new bureau of the Joint Pricing Committee for England (See *C. & D.*, November 24, p. 681)



Mr. J. Charlton at work

UNDER the direction of Mr. J. Charlton (formerly of the Durham pricing bureau), the new pricing office at Newcastle-on-Tyne (see *C. & D.*, November 24, p. 681), puts into practice novel pricing methods and has been designed to serve as a model in appearance, layout and efficiency. The chief innovation is simple but radical: each pricer uses a neat adaptable unit—and above all, flat—steel "turnover" file, complete with information, which lies on her desk (instead of a pricing chart pinned to a screen which almost hides her from view). In addition, the pricers have been carefully chosen from young women of general certificate educational standard, straight from school. The turnover file, which they have been trained during the past three months to use (the unofficial opening of the bureau was timed to coincide with the end of the school year), has already proved to be easier to master, and quicker in use, than the former pricing chart. It contains more information than the chart, and has the notable advantage of facilitating supervision of the pricers.

Promising Speeds

The pricing information given in each file is renewed every month from information received (on "chart A") from the Ministry of Health, the details being duplicated on paper cut to fit the files. To the information taken from the chart are added extra details—for example, the prices of varying numbers of tablets, prices of preparations from old formularies, etc. The files also accommodate ready reckoners. The pricers have so far been working on the more simple bundles for training purposes, and on those they have attained speeds of up to 1,000 and 1,400 prescriptions per day. The average, however, is eighty per hour.

The bureau, occupying about 10,000 sq. ft., is housed on the second and third floors of the building. The third floor, only partially occupied now, is intended for the fifteenth bureau to be opened later. An outstanding feature of the suite of offices is that they are spacious, clean and bright. In view of the trying nature of reading prescriptions, particular care has been given to the illumination. The offices have large windows and well-placed and abundant fluorescent lighting, while the choice of light pastel colours for the walls and ceilings helps the lighting effect. The work has been planned so that, throughout the various processes, the prescriptions move in one direction. The parcels of prescriptions arrive from the postal authorities in a goods lift in a reception room in the eastern end of the bureau. They are opened and the number of packets of prescriptions they contain is checked against the number stated by the chemist. If the numbers correspond, the prescriptions are placed on shelves (of sheet steel) to await their turn to go into the pricing room, otherwise the bundle is referred to a member of the staff qualified to investigate the problem. After being priced and checked (as part of their training the young pricers check each other's work before the final check by experienced staff), the prescriptions pass on to a lift, which carries them to the machine room. There they are totalled on calculating machines, the results being entered on dockets, and then transferred to forms EC 47, which contain the information on which the Executive Councils pay.

At present about seventy girls are employed, and so far only one has left—a tribute to the careful choice exercised in their appointment and the congenial conditions in the bureau. It is planned eventually to employ about 200 pricers. The present salary scale enables the girls to receive two special increments of £20 a year for efficiency. Eight experienced members of other bureaux are training the girls.

The official opening of the bureau also marked the opening of the new offices of the Joint Pricing Committee in the same premises.

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INFORMATION WANTED

The Editor would appreciate information about supplies of the following items:

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OL. CLVI DECEMBER 1, 1951 No. 3745

Onus on Whom?

appears that a number of doctors are ing interviewed by the regional medical ff of the Ministry of Health concerning eir prescribing under the National Health rvice and especially about their prescrib- g of proprietary preparations. As a re- lt, some of the doctors interviewed are w stamping "or N.F. equivalent" on prescriptions for proprietaries.

In our view, this is an improper method prescribing. The prescription when it aches the pharmacist should be clear and ecise, and the chemist should not be put the trouble of finding out the composi- n of any preparation ordered, and then referring to the National Formulary to d the equivalent, if any. Nor should he ve the onus of deciding if X is near ough to be regarded as the equivalent of In some instances the N.F. equivalent ay be plainly recognisable, but in many her circumstances there may be room for ubt, and sometimes no equivalent exists. tab. codein. co. the equivalent of Veg- in (the makers may have something to y on that!)? What are the equivalents Minadex, Complevite, and Evidorm blets, to mention only a few items at ndom? In a few examples the equiva- nt might cost the Exchequer more than e proprietary, as the Drug Tariff gives a gher dispensing fee for certain non-pro- ietary tablets, etc., than for the proprie- ry ordered. Insufficient endorsements by e chemist, too, will result in reference ck and delays in pricing. This new pre- ibing practice should not be tolerated or encouraged by the Ministry. It might suitably be discussed by the liaison committee of the British Medical Association and Pharmaceutical Society.

What Superintendence Involves

More fortunate than in some other new ground it has tried to break in the past, the Pharmaceutical Society has secured in the courts (p. 711) a verdict that may have far-reaching effects on the importance attached to one provision of the Pharmacy and Poisons Act, 1933. That Act lays down the conditions in which a corporate body may carry on business as an authorised seller of poisons. One of them is that the body corporate must appoint a pharmacist as superintendent, and the business must, so far as concerns the retail sale of drugs, be under the personal control of himself or of a pharmacist subject to his directions. It is known that there have been instances in which the letter of the requirements has been complied with but the "directions" given by the superintendent have been nominal. In the case that came before the Sittingbourne magistrates on November 12 the superintendent of the defendant company was a pharmacist resident in the north midlands who, during the whole of his term as superintendent, paid no visit to the company's Sittingbourne shop, and never communicated in writing with the pharmacists in personal control of the retail sale of drugs at those premises. Although there were special circumstances that may have seemed to safeguard the public against any risk arising from his apparent inactivity, the prosecution had no difficulty in proving that the "superintendent" had not fulfilled his functions of superintendence as required by the Act.

The fine was a token fine of £10 but, as the solicitor pointed out, the Society was not concerned with the fine. He was anxious to secure a conviction. The fact that he was complimented by the defending counsel on the "fair way" in which he put the case rather adds to the importance to the conviction he secured. What the precise duties of the superintendent of a body corporate may be is still not explicit, but it is clear to all that it involves at least a visit to the premises and written

evidence of directing the pharmacist in personal control of a branch business. Bodies corporate may rest assured that the Society will go forward to still tighter enforcement rather than lapse into the apparent inertia of the years during which no action was taken on this clause in the Act. In other words, the days of nominal or remote superintendence are at an end.

Overseas Trade in October

THE value of United Kingdom exports in October reached a record figure of £235.3 millions, against an average of £218.6 millions monthly in the July-September quarter. October was, however, a long working month. If a rough allowance is made for its extra days, the rate of export was in value about 2 per cent. above the third quarter level, and in volume about the same as in that quarter.

The value of imports in October was £362.6 millions, equalling the high levels of June, July and August. Imports so far this year have amounted to £3,278 millions; they have exceeded exports, including re-exports, by £1,038 millions.

Exports of the chemicals group totalled £13,630,632, an increase of more than £2 millions over the September figure, and the highest monthly total recorded this year except in August (£14,100,529). The value of drugs, medicines and medical preparations, at £2,258,768, was slightly below the average for the third quarter. The value of proprietary medicines (£658,433) was the highest since July (£711,200). Quinine exports recovered to £42,847 from September's low figure of £26,433. Aspirin exports, at £68,261, were nearly £600 above those of the previous month, and insulin (£44,874) reached its highest figure since May (£62,041). Penicillin salts showed a further decline, with close on 2 million mega units (valued at £379,913) exported. Penicillin preparations (£127,437) made a recovery from the previous month's low figure (£99,141) though they were still below the totals for most months of 1951. Ointments and liniments totalled £94,700, and toothpaste £127,748. Exports of the perfumery, toilet products preparations amounted to £511,879 — about £30,000 more than in September. Essential oil (£105,527) and perfumed spirit (£106,444) were well above the averag for the year.

A study of export figures for 1951 show that the peak value was reached about th middle of the year, and that most classe are now gradually losing ground. A article on p. 735 of this issue will enabl manufacturers and exporters to compar their export sales during the past tw years with those of the country as a whol It will be seen from the table that a fe small—and often neglected—markets fr quently yield as much as one large one.

Grounds for Hope in Pricing

WHAT is most to be commended in th pricing bureau described on pp. 720-21 the initiative and imagination that hav been applied in by-passing establishe methods. It is not too much to claim an a tempt has been made—with every indicatio of success—to introduce a new atmospher into prescription pricing. No doubt e perience in pricing will continue to cou for much in efficiency, despite the redu tion of processes to their simplest term and their wisdom in the attack the org nisers are launching from the start " staff wastage." It is encouraging, ther fore, so far as it goes, to note that on one girl out of seventy has left during th first three months. Ideas put into practi as an experiment at Newcastle-on-Tyn have still to be " sold " to the Treasu before they can be applied nationally bu as has been stated in other connectio " nothing succeeds like success."

A PHARMACIST'S ANTHOLOGY

Ladyes that ben nat louesome & crien wel a w
Hearken how ye mought be heled & that in
hast;
Crien wel a wey namo but waxen right mirie,
Bi an herbe that I have bi loue of ye seyntes
Got bi grete conyng vpon a blessed tyde
Springand ful swetelie bisyde o welle springe .
Further, if ye seke me when I be nat bisie,
I schalle shew yow in o boke, methinke of Aristo
That telleth & techeth ye wonder of ye wede,
Seth that it ben of Venus verilie
Of al herbes ye highest bote hard to be hadd.

—From "Timelie Tydinges for Loue Ladyes," by Ruth Pitter.

A PAMPHLET ON ADVERTISED MEDICINES

By Adest

IF the best way to advertise a medicine is to publish a pamphlet about it, full marks can be awarded posthumously to Francis Spilsbury, an eighteenth-century London chemist. In 1776 he was carrying on business in Mount Row, a terrace or group of houses in Westminster Bridge Road near the bridge. From that address he issued an octavo pamphlet entitled "Free Thoughts on Quacks and Their Medicines, Occasioned by the Death of Dr. Goldsmith and Mr. Scawen." In a long subtitle it was described as "A Candid and Ingenuous Inquiry into the Merits and Dangers imputed to Advertised Remedies": it was dedicated to "the Legislature in general, or, both Houses of Parliament." With the preface it extended to 189 pages. The death of Oliver Goldsmith was commonly attributed to overdosing with James's Powder; and Spilsbury alludes, though without naming the author, to William Hawes's pamphlet of 1774 on Goldsmith's illness. Hawes, an apothecary who later became co-founder of the Royal Humane Society, took a very critical view of the value of James's powder. Mr. Scawen's death, the circumstances of which I have been unable to trace, was followed by a rumour of foul play.

Advertised Medicines Praised

About half of Spilsbury's pamphlet is devoted to the contention that advertised medicines are to be preferred to those dispensed. His knowledge of chemistry did not take him far when he was trying to discriminate between mild and drastic remedies. Writing, for instance, on salts of mercury, he states that corrosive sublimate can be modified "to such a degree, that all its virulent powers shall be quite destroyed and annihilated, as in the powder called the *white precipitate of mercury;* a powder well known among the ladies, for its efficacious virtue, in destroying that little animal which so commonly infests children's heads." The substance of his argument for the superiority of advertised medicines over dispensed medicines is contained in the following passage:

"Who ever is the patient who requires his physician, or apothecary, to give him the receipt of the draughts which are brought to him from the shops? And . . . it would be much more rationable in himself, his friends, or his attendants, to insist upon such an information; as many a mistake, and many an error have been committed, sometimes through the hurry, and more often through the ignorance of the servants of those shops, which have killed the patients instead of relieving them. . . . These accidents never did, NEVER CAN happen with the venders of advertised medicines. They know too well the ingredients . . . and those they use are the very best of the sort which can possibly be got for money, without any regard to the price; and their remedies are composed with the greatest care . . . . Contrary to this, the draughts which are composed in the shops are too often made of *old, stale,* and still more often, *spurious,* drugs."

The Author's Specific

This and other statements on risks run by patients who consult apothecaries leads up to praise of the author's Antiscorbutic Drops. Some years later he patented them: the specification discloses a medley of vegetable and mineral ingredients. He assists readers of his pamphlet by defining medical terms. In one footnote he explains that his definitions are intended first for ladies, "by whom indeed it is our wish it [the pamphlet] may be perused," and secondly for "*Adepts* . . . those who think and call themselves, and generally are considered as, completely skilled in all the secrets of the *Physical Art.*" In 1773 he opened a dispensary for poor people suffering from gout, scurvy, rheumatism and other ailments. Formal application had to be made, however; near the end of the pamphlet specimens of forms and tickets are reproduced. One kind of ticket entitled the holder to a course of treatment without payment: the other to a rebate on the usual charge. So much charity being in evidence, it is not surprising that the price of each size of the Drops was being raised, the small from 3s. to 4s., and the large from 5s. to 7s. This was attributed to the "vast expence" of experimenting; but we may guess that the overhead expenses of the dispensary were one cause if not the main cause. Names and addresses of numerous vendors in London and the country were given. The testimonials printed included one from a man who had got through twelve large bottles of the specific. Each bottle was "sealed with the emblem of Hope."

C. & D.
REFRESHER COURSE
for Pharmacists

Compiled by
COLIN GUNN, B. Pharm., Ph.C.
Assisted by
S. J. CARTER, B. Pharm., Ph.C.
D. R. BRAGG, B.Sc. Hons. (Lond.), B. Pharm., Ph.C.,
and E. J. FITCHETT, Ph.C.

5.—EMULSIONS AND OINTMENT BASES

"Dead flies cause the ointment of the apothecary to send forth a stinking savour."—ECCLESIASTES X.I.

THE pharmacist's knowledge is called upon more and more today to assist the prescriber in formulation. This is particularly so with emulsions and ointment bases, and the following notes are given as a general survey of the factors to be considered.

Dispensed emulsions must be stable; fluid emulsions must not "cream" (i.e., separate as cows' milk does), or "crack" (i.e., break down with separation into their two phases). They do not, however, require to possess the great stability of emulsions made on a large scale, which may stand "on the shelf" for long periods, possibly under considerable variations of temperature. For this reason dispensed emulsions are usually less complicated as, for example, emulsions in which acacia alone may be used as the emulsifying agent. On a larger scale stabilisers may be used and machinery employed in the manufacture to ensure greater stability.

Stabilisers

Stabilisers are themselves usually emulsifying agents but are used chiefly to augment the principal emulsifying agent. Examples are tragacanth, agar, alginates, cellulose derivatives, pectin, etc., which form viscous mucilages with water and, by increasing the viscosity of the continuous phase, prevent or retard creaming. The British Pharmacopœia and British Pharmaceutical Codex contain several examples.

The use of homogenisers and other emulsifying machines ensures that the dispersed globules in an emulsion will be broken down into small uniform size by the simple process of forcing a preformed coarse emulsion through a very narrow orifice, or by shearing the globules. This reduction in the size of the globules also considerably retards creaming.

The significance of globule size and viscosity of continuous phase in emulsions is shown by Stoke's law which may be simply expressed as shown in the next column:—

$$v \propto \frac{r^2 (d - d')}{\eta}$$

where v=velocity of creaming of the dispersed globule.
r=radius of the globule.
d and d′ are the densities of the continuous and disperse phases.
η=viscosity of the continuous phase.

It will be seen that the rate of creaming is proportional to the square of the radius of the dispersed globule and inversely proportional to the viscosity of the continuous phase. Hence stability is increased by reducing the globule size and increasing the continuous phase viscosity.

Acacia emulsions made by mortar and pestle methods require larger quantities of gum than those made by machines. This is because excess of gum is required to give a high viscosity in the initial stages to ensure good emulsification.

Complementary Emulsifying Agents

The stabilisers mentioned above may be regarded as complementary emulsifying agents although their rôle is chiefly that of giving mechanical stability to the system. There are, however, many striking examples of dual emulsifiers, especially among the emulsified ointment bases. It is remarkable that often the emulsifying agents used are apparently antagonistic. Lanette wax SX consists of cetyl and stearyl alcohols, which promote water-in-oil emulsions, and sulphates of those alcohols, which promote oil-in-water emulsions. Combined, they form a remarkably efficient o/w promoting emulsifying agent. Emulsifying wax B.P. contains the same two alcohols and sodium lauryl sulphate, the latter conferring powerful hydrophilic properties on the preparation and forming an excellent o/w emulsifying agent. Traces of soap reverse the w/o emulsifying properties of glyceryl monostearate. The antagonistic effects of borax and beeswax in the older type of cold cream produced

stable water-in-oil emulsions. Many of the non-ionic substances mentioned in the previous article (see *C. & D.*, November 17, p. 665) can be combined with advantage to produce w/o or o/w emulgents of great stability.

It can be shown mathematically that spheres of similar size packed closely into a given space will occupy about 75 per cent. of the volume. In the same way globules of uniform size dispersed as in an emulsion may be present up to this percentage. An increase in the volume of disperse phase may lead to distortion of the globules and it has actually been found possible to make an emulsion containing 99 per cent. of disperse phase. Such a condition, however, is unstable. The most stable emulsions contain between 30 per cent. and 60 per cent. of disperse phase. The higher concentrations are unstable because of the distortion mentioned, while the lower concentrations produce thin emulsions which require considerable amounts of stabilisers. For this reason it is usual in dispensing, when small volumes of oil are to be emulsified, to add additional bland oil, such as nut oil or olive oil, up to 10 per cent. of the total volume, which ensures that a reasonable emulsion will be prepared.

Preservatives

Many emulsifying agents form solutions in water which act as culture media, promoting the growth of bacteria, fungi, yeasts, etc. [a fact which prompted the selection of the quotation at the head of the article]. For that reason well formulated emulsions usually contain a preservative. A preservative should be (a) non toxic, (b) compatible with other ingredients of the emulsion, (c) tasteless (for internal use) and, for preference, (d) colourless and odourless. Well known examples are chloroform (up to 0.25 per cent.), chlorocresol (0.05-0.2 per cent.), sodium benzoate and benzoic acid (0.1-0.2 per cent). Excellent preservatives are methyl and propyl esters of *p*-hydroxy benzoic acid (0.02-0.2 per cent.). The propyl ester (Nipasol M) is the most highly bacteriostatic and is a powerful yeast inhibitor. The methyl ester (Nipagin M) is particularly effective against moulds. For this reason they are commonly used in combination (e.g., in guttæ pro oculis N.F.). Antioxidants are commonly included in emulsions to prevent oxidation of fixed oils, common examples being pyrogallol and ethyl and propyl gallates.

Incompatibilities

Substances which act chemically or physically upon the colloidal emulsifying agent are likely to break an emulsion. High concentrations of electrolytes, for example, will tend to precipitate the colloid. Soaps break down in presence of mineral acids as follows:—

$$R.COONa + HCl \rightleftharpoons R.COOH + NaCl$$

Calcium and magnesium salts react with the alkali soaps.

$$2\,R.COONa + CaCl_2 \rightleftharpoons (R.COO)_2Ca + 2\,NaCl$$

This effect may reverse an o/w emulsion since calcium soaps promote w/o emulsions. Anionic and cationic emulsifying agents are incompatible. Thus emulsifying wax (anionic) is incompatible with cetyltrimethyl ammonium bromide (cationic). For the same reason emulsifying wax is not suitable for creams containing cationic dyes such as acriflavine and gentian violet. Even if no separation of the emulsion occurs when using cationic dyes, the antiseptic properties of the dyes may be adversely affected.

Strong electrolytes such as acids and salts, lead subacetate, iodine, hypochlorites, salicylic acid, acriflavine, in certain concentrations cause difficulties with most ionising emulsifying agents. For emulsions containing these there is a tendency today to resort to the use of non-ionic agents such as were mentioned in the previous article.

Emulsified Ointment Bases

Many investigations have been aimed recently at discovering the extent to which the bases penetrate the skin and the amount of medicament which is absorbed from them into the blood stream. Much of the evidence is conflicting but it would appear that animal fats such as lard, wool-fat bases, emulsified bases, particularly the water-miscible and non-greasy bases result in a speedier absorption of medicament than paraffin bases. Other criteria, however, are important. Factors to be considered include stability, compatibility with the medicament, hydrogen-ion concentration, consistency, emulsifying properties, miscibility with skin secretions, effect on skin function, possibility of irritant effect, ease of application and removal, emollient nature, and degreasing or dehydrating effect. No single base is suitable for all possible requirements and the Pharmacopœia contains examples of all types. Overleaf is a brief account of some of them.

Wool fat is a well-known water-in-oil emulsion base, its chief advantages being that it produces emollient bases which readily penetrate the skin. It is often added to lime creams in which it acts as a stabiliser to the calcium soap. In small quantities it increases the stability of o/w emulsions containing emulsifying wax.

Wool alcohols which consists of certain alcohols separated from wool fat, chiefly cholesterol (30 per cent.) and lanosterol (25 per cent.) is a better emulsifying agent than wool fat itself. Moreover it does not have the disadvantages of stickiness and unpleasant odour. It is used in wool alcohols ointment and hydrous ointment.

Oil-in-water Emulsion Bases

Soaps. Prior to the use of modern emulsifying agents soaps were used to produce water-miscible creams. In the following example sodium stearate is formed by interaction between sodium carbonate in solution and stearic acid, heated.

Methyl salicylate	20
Stearic acid	4
Sodium carbonate	2
Water	to 100

Metallic soaps, however, are too alkaline for many purposes and are prone to incompatibility. Triethanolamine soaps are more satisfactory as they are less alkaline and produce excellent stable creams. The following is a typcial base.

Triethanolamine	2
Stearic acid	15
Liquid paraffin	20
Soft paraffin	5
Water	to 100

Various methods of preparation are advocated but commonly the acid and paraffins are melted together and mixed with the triethanolamine in water heated to about the same temperature and the mixture stirred until cold.

Glycol and Glycerol Stearates. To avoid the use of soaps a number of wax-like compounds of non-ionic type were developed and often classed under the general name of glycol stearates. They include many glycol and glycerol esters of various fatty acids. Examples are diethylene glycol monostearate (marketed under the names of diglycol stearate, Abracol D. G. S. and Estax) and glyceryl monostearate, mono-oleate, etc. These substances, however, are water-in-oil promoting emulsifying agents. Generally the commercial preparations contain a trace of soap or cationic agent which reverses their effect producing good oil-in-water emulsifying properties. The following example is of a water-miscible base.

Glycerol monostearate S.E.	15
Soft paraffin	10
Liquid paraffin	25
Water	to 100

(*S.E. means self emulsifying and indicates the presence of a trace of soap*).

Emulsifying Wax. The discovery of Lanette wax SX placed a new and valuable emulsifying agent in the hands of pharmacists. This substance contains cetyl and stearyl alcohols sulphated to the extent of 10 per cent. (the letters SX refer to the sulphation and its amount). This substance produces stable o/w emulsions which are nearly neutral and may even be made slightly acid to equal the *p*H of the skin. Bases made with it are elegant, easily applied and washed off and have good penetrating power. The official emulsifying wax has similar properties. Typical creams incorporating it are hydrous emulsifying ointment and the penicillin creams.

Non-ionic Emulsifying Agents. An example of this group which is gaining much popularity is Polawax. Its great advantage over the ionic agents is its comparative freedom from incompatibility. This is because of its non-ionic character. (It is described by the makers as a preparation of stearyl alcohol and ethylene oxide reaction products. See previous article.) It is stable in presence of most of the substances already mentioned which normally cause trouble. The following illustrates its use for water miscible bases.

Polawax	7
Hard paraffin	5
Liquid paraffin	40
Chlorocresol	0.1
Water	48

Numerous examples of these types of creams will be found in books suggested for further reading (see *C. & D.*, November 17, p. 667) together with examples of other emulsifying agents such as bentonite a colloidal clay used for suspending, emulsifying and stabilising, and colloidal aluminium hydroxide used similarly.

REVISION QUESTIONS

1. *It is required to prepare a water-miscible ointment containing* 50 *per cent of eusol. Separation occurs with an emulsifying wax base. Suggest how a satisfactory preparations may be made.*

2. *Critically examine the formula of emuls. paraff. liq. c. agar, B.P.C.*

NEW SCOTTISH SUTURE FACTORY



Looping operation being carried out in the presence of Mr. R. L. Buell (American consul, Edinburgh); Dame Hilda Lloyd, D.B.E. (president, Royal College of Obstetricians and Gynæcologists); the Lord and Lady Provost of Edinburgh, Sir Cecil P. G. Wakeley, K.B.E., C.B. (president, Royal College of Surgeons of England) and Mr. L. A. Bailey (managing director, Ethicon Suture Laboratories, Ltd.).

A NEW factory was formally opened for Ethicon Suture Laboratories, Ltd., at Fountainbridge, Edinburgh, recently by the Lord Provost, who said that the factory would make sutures for world markets as well as to meet shortages in Britain. The first object was to make Britain self-sufficient for its suture requirements. Since 1915, when Mr. George Merson had established the forerunner of the present business, Britain had become less dependent on foreign supplies, and Edinburgh had become the British centre of the industry. By 1939, approximately half the British sutures were made in Britain.

During the recent war considerable progress had been made by the British suture industry and, at the end of it, Britain was almost self-sufficient, so far as sterilisation was concerned, but fifty per cent. of the raw strings for the sutures had to be imported. He congratulated the company on their initiative and enterprise, first in building their factory at Sighthill, and now in acquiring, renovating and equipping the Fountainbridge factory.

MR. L. A. BAILEY (managing director), who presided at a luncheon held in Edinburgh the same day, said the company was now supplying suture material to about forty-two countries.

The factory, which has been constructed in six months at a cost of £30,000, and gives employment to fifty-eight men and 131 women, is owned by Johnson & Johnson, New Brunswick, U.S.A. At Fountainbridge the raw material for sutures (the upper intestine of lambs and sheep) is processed into ribbons and strings, which together with other strings from an associate factory in Sydney, Australia, are then polished, gauged, and inspected before being sent to the company's Sighthill factory for finishing.

Among the guests who inspected the new premises and were later entertained to luncheon were Sir Cecil P. G. Wakeley (president, Royal College of Surgeons of England); Dame Hilda N. Lloyd (president, Royal College of Obstetricians and Gynæcologists); Professor Sir Sydney Smith (dean, Faculty of Medicine, University of Edinburgh); Sir Henry Wade (ex-president, Royal College of Surgeons of Edinburgh); Professor H. Berry (dean, School of Pharmacy, University of London); Mr. G. F. Merson; and Dr. D. McCall (resident secretary, Scottish Executive, Pharmaceutical Society).

IRISH PHARMACY BILL

THE Pharmacy Bill, 1951, which has received a first reading in Dail Eireann (see *C. & D.*, November 10, p. 611) consists of eight Sections, and is described as "An Act to amend and extend the enactments relating to Pharmacy." SECTION 1 defines "the Act of 1890" as the Pharmacy Act (Ireland), 1875, Amendment Act, 1890; "the council" as the Council of the Pharmaceutical Society of Ireland; an "existing registered druggist" as a person who, at the commencement of the Act, is named in the register of Registered Druggists in Ireland; "the Minister" as the Minister for Health; "the period for qualification" as the period of three years starting from the commencement of the Act; "Prescribed" means prescribed by regulations made by the Council subject to the provisions of the "Principal Act" (the Pharmacy Act (Ireland) 1875). "The Registrar" means the registrar of the Society.

SECTION 2 states "(1) The registrar shall maintain a register to be called the register of dispensing chemists and druggists. (2) Any existing registered druggist who has received the certificate of the Society of his having passed, during the period for qualification, an examination of his qualifications held pursuant to Section 3 of this Act shall, on making application in writing to the registrar, be entitled to be registered in the register of dispensing chemists and druggists. (3) Where a person is registered in the register of dispensing chemists and druggists, his name shall be removed from the register of registered druggists in Ireland."

SECTION 3 states: "(1) The Council shall, during the period for qualification, cause the prescribed examinations to be held from time to time for the purpose of examining the qualifications for registration under this Act of existing registered druggists. (2) The examinations shall be held at the prescribed times and in the prescribed manner by examiners appointed, with the approval of the Minister, by the Council."

SECTION 4 states: "It shall be unlawful for any person to use the title of Dispensing Chemist and Druggist unless he is registered in the register of dispensing chemists and druggists and any person acting in contravention of this Section shall be guilty of an offence under this Section and shall be liable on summary conviction thereof to a fine not exceeding £1."

SECTION 5 states: "A registered dispensing Chemist and Druggist shall be entitled to sell or keep open shop for retailing, dispensing or compounding poisons or medical prescriptions."

SECTION 6 states: "(1) Section 8 of the Act of 1890 shall cease to have effect except as respects terms of service as apprentice or assistant which began before the thirty-first day of October 1951. (2) Section 10 of the Act of 1890 shall cease to have effect except as respects apprenticeships which began before the thirty-first day of October 1951." SECTION 7 deals with consequential amendments to the Principal Act.

SECTION 8 states: "(1) This Act may be cited as the Pharmacy Act, 1951. (2) The Principal Act, the Act of 1890 and this Act shall be read together and construed as one Act. (3) This Act shall come into operation on such day as the Minister appoints by Order."

NEW BOOKS

Dutch Chemicals and Pharmaceuticals.—9½ x 6½ in. Pp. 387. Mitgave van de Bedrufsgroep Chemische Industrie, Javastraat 2, s'Gravenhage, Holland. The 1951 edition contains a directory of Dutch chemical and pharmaceutical manufacturers and a classified list of chemicals.

Calendar of the Pharmaceutical Society, 1951-52.—8½ x 5½ in. Pp. 308. 12s. 6d. Pharmaceutical Press, 17 Bloomsbury Square, London. W.C.1. Reissued for the first time for some years, the Calendar brings together information about the officers, honorary and corresponding members of the Pharmaceutical Society, its branch organisation and administration, activities, and relations with other bodies. It gives the membership of the Poisons Board, includes the Statement upon Matters of Professional Conduct, deals with all administrative aspects of pharmaceutical education, and gives in full the text of various Acts and Regulations affecting the practice of pharmacy.

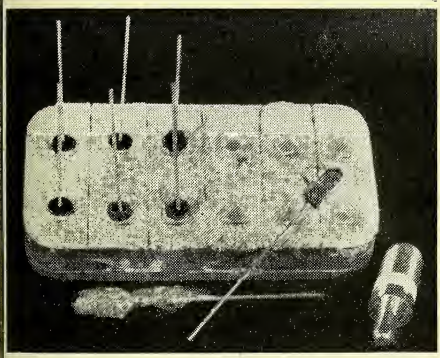
Bernard Spilsbury: His Life and Cases.—Douglas G. Browne and E. V. Tullett. 8½ by 5½ in. Pp. 422. 21s. George G. Harrap & Co., Ltd., 182 High Holborn, London, W.C.2. To others may be left the task of reviewing this just-published work in its main aspects, which are sufficiently indicated by the title. What may interest pharmacists is the emphasis laid

by the authors from the start on the antecedents in pharmacy and the drug trade of the renowned pathologist. "From about 1670 onwards . . . a new spirit of enterprise fired this conventional race (Spilsburys in West Country livings) to launch out into trade, medicine, and the arts. . . . The most unorthodox of them all was Francis Spilsbury, who at his house in Mount Row, on the Surrey side of Westminster Bridge, dispensed antiscorbutic pills, drops, and other medicaments of his own concocting." "Perhaps he is chiefly of interest," they write, "because his 'Dispensary' in Mount Row was the forerunner of a laboratory which that descendant was to make famous." Other Spilburys went into medicine, and Bernard's own father, a physician *manqué*, became an analytical chemist, and was, during part of his career, a partner in the firm of Blackwell, Hayes & Spilsbury, manufacturing chemists, Birmingham. In that *milieu* "it was agreed, except by his grandmother, that he was to be a doctor." His progress to eminence in that field, or rather in forensic medicine, is related in the remaining chapters.

CORRESPONDENCE

Medicinal "Lollipops"

SIR,—To facilitate local anæsthesia of the mouth and pharynx prior to bronchoscopy it is the practice of many anæsthetists to use a local anæsthetic tablet, for example, amethocaine, which is sucked by the patient prior to the procedure. This



method, although good in principle, has a number of disadvantages:—

1. The tablet may be swallowed inadvertently.

2. The tablet may be retained under the tongue or in the cheek where it will produce a local area only of anæsthesia and so may be forgotten by the patient.

3. If the tablet remains in one place continuously an area of necrosis may be produced.

4. As it is common to use some mouth-drying agent, for example scopolamine or atropine, as a premedication, it is difficult for the patient to move the tablet about the mouth successfully.

5. The tablet may be inhaled inadvertently.

Chewing gum medicated with amethocaine overcomes most of the disadvantages, but the gum can still be inhaled inadvertently with possible serious results. Accordingly 30 mgm. of amethocaine has been made up in the form of a "lollipop," which is sucked by the patient. To prevent its being swallowed or inhaled it is firmly attached to a stick, the whole resembling a small toffee apple. The "lollipop" is made by heating to 154°C. granulated sugar, potassium acid tartrate, and water. To this are added amethocaine, lemon essence and a colouring agent. The resulting mixture is poured into a starch mould. The following are the quantities necessary for the preparation of thirty "lollipops."

Granulated sugar	150 gm.
Potassium acid tartrate	0.5 gm.
Water	50 mils
Amethocaine hydrochloride	0.9 gm.
Soluble essence of lemon	0.5 mil
Green colour solution (B.D.H.)	2 mils
Water	5 mils

This preparation has been in use at this hospital for some time and has been entirely successful.

T. D. WHITTET.
University College Hospital, London. B. G. B. LUCAS, F. H. NEWMAN,

Pricing by Machine

SIR,—Although the opening of a new pricing bureau (see *C. & D.*, November 24, p. 681) in which improved methods are to be used is welcome news, the bureau seems to be still handicapped if pricing is still to be confined to manual methods, no matter how modified. No reference was made at the opening ceremony to the possibility of installing a mechanical system. Does that mean that mechanical help in pricing has been ruled out in England? If so, where is the initiative you mention? McHINE.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade

London, November 28

TRADING in PHARMACEUTICAL and FINE CHEMICALS during the week has again been confined to routine requirements. A slight easing in the home supply position of ASPIRIN during November is reported.

The CRUDE DRUGS market continues dull, with spot supplies of many commodities difficult to find. There has been an increased demand for BUCHU LEAVES during the week, and most stocks are now cleared on the spot; holders are asking threepence per lb. more than last week. Remaining supplies of Argentine HONEY are being cleared rapidly in view of the need for licences in future. ERGOT has declined still further. The TOLU BALSAM spot market is practically bare, but B.P. material is still available.

The demand for edible oils has greatly increased. Spot OLIVE, which before the announcement on licences could not be sold at 26s. (and in some cases was as low as 21s.) per gall., has moved up to over 30s. There are no offers of imported sweet ALMOND from origin, and spot supplies have been cleared. Second thoughts on the £2 millions quota for ESSENTIAL OILS are that the quota is less generous that at first thought, even taking into account the fact that oils have generally depreciated in value since the beginning of the year. Essential oil imports from the Netherlands, France, Italy, Brazil and other foreign countries in the first six months of 1951 totalled £2,846,885 and, if those from Hong Kong (largely of Chinese origin and therefore subject to licence) are added, the total reaches £3 millions. The first import licences have been received from the Board of Trade, but the quantities permitted are "on account." Statements made by applicants on their purchases during the period in question are said to give a total considerably in excess of the Customs returns. The provisional licences will minimise the interruption to the flow of imports until the matter is straightened out.

U.S. Drug and Chemical Report

New York, November 21

THE handling and movement of chemicals are back to normal after the long dock strike in New York. CITRIC ACID production has increased and the material is in better supply at steady prices. GLYCERIN refiners are finding the crude material easier to obtain. CRUDE DRUG prices remain steady, with demand restricted. Supplies of ERGOT are limited. MENTHOL remains inactive, with Brazilian material available at below $9.40 per lb. A firm tone prevails in LANOLIN. Another shipment of crude IODINE has arrived from Japan, bringing total receipts since July up to about 66,000 lb. Several items in the ESSENTIAL OILS market continue to display a soft tone. Oils affected include LAVENDER, Californian ORANGE, NUTMEG, SAGE, LEMONGRASS and GINGER.

Pharmaceutical Chemicals

DEXTROSE. — Rates for MONOHYDRATE B.P. (quantities under 5-cwt.) are: 1-lb. packets, 22s. 6d. per doz.; 7-lb. tins 13s. 3d. each; 14-lb. tins, 25s.; 28-lb. tins 47s.; less 12½ per cent. to wholesalers delivered. In quantities of 5-cwt. and over, 7-lb. tins are 1s.; 14-lb. tins, 1s. 6d. and 2s. less than above prices. ANHYDROUS, B.P. (quantities under 5-cwt. prices as follows:—7-lb. tins, 13s. 14-lb. tins, 26s.; and 28-lb. tins, 49s. less 12½ per cent. to wholesalers; delivered Reductions for quantities of 5-cwt. and over are the same as for monohydrate.

EPHEDRINE.—In 100-oz. lots ALKALOID is 14s.; HYDROCHLORIDE, 8s. 6d., and SULPHATE, 10s. per oz.

GLYCERIN.—Rates at present for chemically pure (B.P.) are as follows:—

	Under 1 cwt.	1 cwt. and under 5 cwt.	5 cwt. and under 1 ton	1 ton and under 5 ton	5 ton and under 25 ton
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	5 cwt.	10 cwt.
Per cwt.	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s.*
TINS					
14-lb.	315 0	310 6	306 6	302 0	300
28-lb.	313 0	308 6	304 6	300 0	298
56-lb.	309 0	304 6	300 6	296 0	294
DRUMS					
1-cwt.	—	289 0	285 0	280 6	279
2½-cwt.	—	286 6	283 0	278 6	277
5-cwt.	—	—	282 6	278 0	276
10-cwt.	—	—	281 6	277 6	276

25 tons and upwards (minimum delive of contract of 2 tons), 14-lb. tin 299s. 6d.; 28-lb., 297s. 6d.; 56-l 293s. 6d.; 1-cwt. drums, 278s.; 2½-cw 276s.; 5-cwt., 275s. 6d.; 10-cwt., 27 Extra charges are made for small deliveries ex contract of from 6d. to 2 Tins and cases free, glass packages a iron drums charged extra and returnab Drums will be credited in full only if r turned carriage forward in good conditi within four months of date of invoic if retailed beyond six months their i trinsic value only will be credited, whi will not in any case exceed two-thirds the invoice price. Terms: 2½ per ce monthly account, afterwards net. (Refin pale straw industrial grade is 5s. per cw less than above).

HOMATROPINE HYDROBROMIDE.—In 1-lb. lots price is 75s. per oz.; 4-oz., 80s., and 1-oz., 85s.

HYDROCYANIC ACID.—B.P.C. (Scheele's) is quoted at from 1s. 5½d. per lb. and B.P. at 1s. 1½d. per lb.

LITHIUM SALTS.—Current rates for 1-cwt. lots are as follows:—CARBONATE, 9s. per lb.; CHLORIDE (commercial), 8s. 6d.; HYDROXIDE, 8s. 6d.; CITRATE, 7s.; SULPHATE, 6s. 4d.; SALICYLATE, 8s.

MAGNESIUM SULPHATE. — Small crystals in 1-ton lots are 23s. per cwt.; 5-cwt. lots, 25s. per cwt.; 1-cwt., 26s. Medium crystals are 2s. 6d. per cwt. extra. Exsiccated is 54s. 6d. per cwt.

NICOTINIC ACID. — 56-lb. lots, 46s. 6d. per lb.; 28-lb., 47s. 9d.; 7-lb., 52s. 9d. per lb.

OLEIC ACID.—Prices for B.P. are from 1s. 7d. to 2s. per lb. and technical from 1s. 5d. to 1s. 10d. per lb.

PHENAZONE. — Supplies remain short. Prices are from 21s. per lb.

PILOCARPINE.—In 25-oz. lots prices are: ALKALOID, 56s. per oz.; HYDROCHLORIDE, 6s. per oz.; NITRATE, 42s. per oz.

PYROGALLIC ACID. — Quotations per lb. for CRYSTALS are as follows: 1 cwt., 18s.; 56-lb., 18s. 6d.; 28-lb., 19s. 6d., net. Smaller quantities are from 21s. to 24s. per lb., less 2½ per cent. RESUBLIMED is 20s. 3d. per lb. for 1-cwt. lots.: 56-lb., 20s. 9d.; 28-lb., 21s. 9d.; 14-lb., 23s. 3d. net. Smalls are from 24s. 9d. to 26s. 3d. per lb., less 2½ per cent.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d. Scheduled rates for quantities of 28-lb. and under 1-cwt. are from 3s. 7d. to 3s. 11d. as to pack.

SANTONIN.—The following makers' prices per kilo apply in the home market, including Eire.—5-kilo lots, £89 10s.; 2-4-kilo lots, £91; 1 kilo, £92 10s.; 500 gm., £94; 250 gm., £95 10s.; 100 gm., £97; smaller quantities, £98 10s. Supplies are scarce.

THEOBROMINE.—Prices (per lb.) are now as follows:—

	1 cwt.		28 lb.		7 lb.	
	s.	d.	s.	d.	s.	d.
ALKALOID, B.P.C. ...	51	6	52	6	53	6
AND CALCIUM SALICYLATE ...	33	0	34	0	35	0
AND SODIUM SALICYLATE ...	31	3	32	3	33	3
AND SODIUM BENZOATE ...	30	0	31	0	32	0

ZINC CHLORIDE.—B.P.C., cake, is from 4s. 6d. to 4s. 10d. per lb.; sticks, from 5s. 10d. to 6s. 2d. per lb.

ZINC OXIDE.—Minimum (2 tons) rates are as follows:—B.P., £220 per ton; white seal, £208 15s.; green seal, £207 15s.; red seal, £206 5s.

Crude Drugs

AGAR.—Firm. Kobé No. 1 on the spot is quoted at 9s. per lb., duty paid. Forward offers are 7s. 9d., c.i.f., for prompt shipment.

BALSAMS.—*Canada* is offered at from 28s. to 30s. per lb. on the spot, according to holder. *Copaiba*, Maranham, on the spot is 17s. per lb., duty paid. Para insoluble, about 10s., c.i.f. *Peru* is 18s. 9d. per lb., duty paid, and 15s., c.i.f., for shipment. *Tolu*, natural, on the spot is almost unobtainable; B.P. quality is offered at 32s. 6d. per lb.

BUCHU.—Spot supplies are scarce. Short round leaves are now 2s. 1d. per lb.

CASSIA BARK. — Whole, for November shipment is 120s. per cwt., c.i.f.

CHERRY BARK.—Thin cut natural is quoted at 2s. per lb., duty paid, ex warehouse London.

CHILLIES. — Sierra Leone on the spot are quoted at 270s. per cwt.; for shipment, 235s., c.i.f.; East African (Mombasa), 340s., ex warehouse; for shipment, 310s., c.i.f.

CLOVES.—Firm. Zanzibar on spot, quoted at 5s. 1½d. per lb.; for prompt shipment, 4s. 11d., c.i.f.

COCHINEAL.—Black is 8s. 2d. per lb. and silver grey from 7s. to 7s. 9d.

ERGOT.—Forward quotations of Portuguese are at 50s. per lb., c.i.f., nominal. Spot is 53s. 6d. per lb., nominal.

GALANGAL ROOT. — Forward quotations are about 85s. per cwt., c.i.f., for November shipment. On the spot, 107s. 6d. is asked.

GENTIAN.—French natural on spot is 125s. per cwt., with material from other sources at from 120s. Sliced is 150s. per cwt. on the spot.

GINGER.—African on the spot is from 250s. per cwt.; for shipment, 230s., c.i.f. Jamaican on the spot is from 460s. to 495s. per cwt., as to quality.

HONEY.—A firm market. Last spot supplies of Argentine are rapidly being cleared at from 95s. to 100s. per cwt. Australian manufacturing material is also scarce at 95s. per cwt. in 60-lb. tins. Jamaican is from 105s. to 115s. in 3-cwt. barrels.

IPECACUANHA.—Forward offers are: Columbian, from 54s. to 55s. per lb.; Nicaraguan, 58s. 6d., both c.i.f., November-December shipment. Spot material prices of Columbian are 58s. 6d. per lb.

MACE. — West Indian pale blade is 9s. 3d. per lb.; for shipment, 8s. 8d., c.i.f.

MENTHOL. — Firm. Chinese is 82s. 6d. per lb., duty paid, and 78s. in bond; afloat, 77s., c.i.f.; shipment, 77s. 6d., c.i.f. Brazilian is 81s. 6d., duty paid. Synthetic detached crystals, 60s. per lb. for 60-lb. case lots.

NUTMEGS.—West Indian 80's, quoted at 4s. 6d. per lb. on the spot and 3s. 8½d., c.i.f. for shipment. East Indian for shipment, are quoted at from 3s. 7½d., c.i.f.

ORRIS ROOT.—Offers of Florentine are at 157s. 6d. per cwt., ex warehouse.

SARSAPARILLA. — Jamaican native red is about 2s. 8d. per lb. on the spot and for shipment, 2s. 4½d., c.i.f.

SEEDS.—ANISE.—Spot, quiet. Cyprus is 160s. per cwt.; Turkish, 150s. in bond and 160s., duty paid. CARAWAY.—Dutch is offering at 127s. 6d. per cwt., duty paid, London. CELERY. — Indian is unchanged at 1s. 10½d. per lb., spot London. CORIANDER.—The market has become quiet and prices have eased a little. Spot Morocco can be bought at 87s. 6d. per cwt. in bond and 95s., duty paid; Indian is 115s.; Argentine splits, 80s., duty paid. Shipment: Morocco is quoted at about 87s. per cwt., c.i.f. London, with no business reported. CUMIN.—Market continues quiet with no business reported during the past week. Spot: Cyprus is 225s. per cwt.; Indian, 220s.; Malta, 225s.; Morocco, 230s., duty paid. Shipment: Cyprus, 192s. 6d. per cwt.; Indian, 190s.; Morocco, 185s., all c.i.f. London. DILL.—Indian for shipment has advanced to 85s. per cwt., c.i.f. Spot is quoted at 90s. per cwt. FENNEL.—Spot price is 200s. per cwt., with no buyers, although the forward price is 250s. per cwt., c.i.f. London. FENUGREEK.—Morocco continues to be of little interest at 46s. per cwt., duty paid, spot London or Liverpool.

SENEGA. — Prices for shipment are 16s. 3d. per lb., c.i.f.; spot supplies are offered at 16s. 6d. per lb.

SENNA.—Tinnevelly leaves on the spot are from 11d. to 1s. 5d. per lb., according to quality. Pods are 2s. 2d. per lb. for manufacturing quality and up to 3s. 9d. for hand-picked.

SQUILL. — Italian white new-crop is offered from origin at 57s. 6d. per cwt., c.i.f. London. Spot is 65s. per cwt.

STYRAX.—Spot is from 9s. per lb., duty paid, and 8s. 3d. in bond.

TAMARINDS. — Barbados are at about 47s. 6d. per cwt., and Antiguan, 45s., both duty paid, ex wharf.

TURMERIC.—Madras finger is offered at from 87s. 6d. per cwt., spot London; for shipment, 72s. 6d., c.i.f.

VALERIAN.—Whole Belgian on the spot is quoted at about 210s. per cwt., spot, and 190s., c.i.f., for shipment. Indian is 169s. 6d. per cwt., spot London; for shipment, 160s., c.i.f., quoted. Spot Russian is 180s. per cwt.

VANILLIN.—Current rates (per lb.) are as follows:—5-cwt. lots, 45s.; 1-cwt., 45s. 3d.; 56-lb., 45s. 6d.; smaller quantities, 45s. 9d.

Essential and Expressed Oils

ALMOND. — English-expressed is fro 6s. 6d. to 6s. 10½d. per lb. Bitter essenti oil (s.a.p.) is from 26s. per lb., upwards, to grade.

ANISE. — Firm. Spot quotations a from 9s. 9d. to 10s. 3d. per lb. in origin drums.

BAY. — Scarce. West Indian is quot at from 15s. 6d. to 17s. 6d. per lb.

BERGAMOT.—Scarce. Nominal spot qu tation is 115s. per lb.

CANANGA.—Supplies on the spot are qu ted at from 75s. per lb. nominal.

CARDAMOM OIL. — Quotations are fr 410s. per lb.

CASSIA.—Spot supplies are offered fr 26s. 6d. per lb.

CITRONELLA. — Spot prices for origi drums are: Ceylon, 8s. 6d. per lb. Formo 8s. 5d. and Java, 9s. 9d. Forward quo tions for Ceylon are about 7s. 6d. lb., c.i.f.

JUNIPER BERRY. — Imported oils offered at from 19s. per lb., duty pa English-distilled is offered at 75s. to 9 per lb., as to seller and grade.

LAVENDER.—French, 40-42 per cent. lin lol on the spot is from 44s. to 47s. per Spanish spike is 15s. per lb. for spot.

LEMON.—A weak market. Sicilian ha pressed (4 per cent. citral) is quoted prices up to 60s. per lb., c.i.f. Spot q tations are about 52s. 6d. per lb.

LEMONGRASS.—Easier forward. Quo tions are from 17s. 3d. to 17s. 9d. per c.i.f., according to position. Spot suppl are 24s., nominal.

NUTMEG.—English-distilled oil is ab 55s. to 57s. 6d. per lb. Imported oil (B. is from 37s. 6d. per lb., duty paid.

OLIVE. — Spot supplies are dea French virgin oil in 48-gall. drums, sp is 30s. 6d. per gall.; pharmaceutical, French virgin (maximum acidity 1 cent.), new-crop, is offered for Decem shipment at £255; Tunisian virgin at £2 and French pharmaceutical (maxim acidity 0.25 per cent.), at £250 per 1, kilos, c.i.f. London.

ORANGE.—West African is about 38s. per lb., duty paid. Palestinian is 2 per lb.

PATCHOULI. — Weaker. Spot supplies Penang are offered at 70s. per lb.

PENNYROYAL.—New-crop for immedi shipment is offered at from 30s. to 35s. lb., landed, duty paid, as to source. S supplies are available at 35s. per lb.

PEPPERMINT. — Chinese *arvensis* oil spot is scarce; limited supplies at 38s. per lb. Brazilian for shipment is 29s. lb., c.i.f., and spot, 31s. nominal.

ROSEMARY. — Spanish on the spot 7s. per lb., duty paid.

EXPORT POSSIBILITIES REVIEWED

By H. Catleen, D.Sc., M.I.Ex.

THE adjoining table gives a comprehensive picture of the export possibilities and difficulties likely to be met today by a British manufacturer of consumer goods. In drawing up this new summary [a previous article by the author appeared shortly after devaluation (see *C. & D.*, 1950.I.444)], consideration has been given to the general rules and regulations governing the import of manufactured goods only.

Import Position Classified

The territories are classified into the following categories:—

A: No import restrictions.

B: No import restriction generally, but a few exceptions for which licences are obtainable.

C: Countries within the Organisation for European Economic Co-operation. Liberation lists in force. Import licences needed for products outside the liberation lists, which are:
(1) Easy to obtain.
(2) Worth trying for.
(3) Difficult to obtain.

D: Import licences obtainable, but different rates of exchange fixed for different categories of products.

E: Priority for import licences for essential goods. For other products licences are difficult, but should be applied for from time to time.

F: Import licences almost impossible.

Categories A, B, E and F are self-explanatory. Firms wishing to export to a country in class C should first consult the liberation list published by that country to verify whether the product is mentioned on the list. If it is, then one can freely export the product to that country, otherwise an import licence is needed. Countries classified in category D belong mainly to South and Central America, and from the point of view of the importing country the less essential an article is the higher the rate of exchange and the more the customer has to pay for it in his currency.

The export statistics that follow represent total exports from the United Kingdom and the availability of import licences refers to all manufactured goods generally and not particularly to pharmaceutical products.

Territory	Exports from U.K. in £1 million		Conditions of entry
	1949	1950	
EUROPE			
Austria	6.0	7.8	C3
Belgium	35.9	51.6	C1
Bulgaria	0.6	0.3	F
Czechoslovakia	5.3	4.3	E F
Denmark	49.3	63.6	C2
Eire	76.8	86.9	B
Finland	18.8	20.4	E
France	33.6	44.1	C1 C2
Germany	26.7	44.0	C3
Gibraltar and Malta	10.2	9.5	B
Greece	13.7	14.7	C3
Hungary	4.2	1.8	F
Iceland	3.4	2.2	C3
Italy	17.9	28.4	C2
Netherlands	52.9	71.6	C1 C2
Norway	43.7	52.8	C3 E
Portugal	18.6	16.1	C1
Roumania	1.6	0.7	F
Spain	9.6	9.3	F
Sweden	46.9	79.5	C2
Switzerland	19.3	29.1	C1
Turkey	10.1	10.5	C2 C3
AMERICA			
Canada	79.3	125.8	A
U.S.A.	57.1	113.1	A
Argentina	51.1	38.3	D
Bermuda	1.8	2.2	B
Bolivia	0.9	1.0	D F
Brazil	33.9	42.7	D
British Guiana	4.5	4.9	B
British Honduras	0.4	0.7	B
British W. Indies	23.9	28.7	B
Chile	5.4	6.1	D E
Colombia	3.3	5.9	F
Costa Rica	0.4	0.8	D E
Cuba	1.5	3.4	A
Curaçao	2.4	3.5	B
Dominica	0.5	0.5	B
Ecuador	0.9	1.3	D E
French Guiana	0.07	0.09	B
Guatemala	0.3	0.7	A
Haiti	0.3	0.6	A
Honduras	0.1	0.2	A
Mexico	2.4	5.1	E
Nicaragua	0.1	0.3	D E
Panama	2.1	5.0	A
Paraguay	0.8	0.5	D E
Peru	4.3	10.5	A
Salvador	0.3	0.5	A
Surinam	0.2	0.4	B
Uruguay	10.4	13.7	D E
Venezuela	14.5	14.2	B
AFRICA			
Belgian Congo	5.4	5.7	B
British E. Africa	35.5	35.4	B
British Somaliland	0.1	0.1	B
British W. Africa	64.3	63.9	B

Territory	Exports from U.K. in £1 million		Conditions of entry
	1949	1950	
Egypt	35.9	42.4	A
Ethiopia	0.6	0.7	B
Liberia	1.1	0.9	A
Mauritius	3.5	4.1	B
Portuguese E. Africa	3.0	3.4	B
Portuguese Guinea	0.4	0.6	B
Portuguese W. Africa	1.7	1.9	B
Seychelles	0.1	0.1	B
Southern Rhodesia	31.4	33.2	B
Sudan	7.8	9.3	A
Tangier	0.8	0.6	A
South Africa ..	125.0	121.1	E
ASIA			
Aden	2.8	3.4	B
British Borneo ..	2.9	3.1	B
Burma	7.1	8.9	E
Ceylon	14.7	17.1	B
Cyprus	4.1	5.6	B
India	117.1	96.8	E
Iraq	14.2	14.5	E
Israel	6.2	9.4	E F
Lebanon	8.5	8.0	B
Malaya	42.0	53.8	B
Pakistan	33.0	40.9	B
Persia	30.9	30.2	D E
Portuguese India ..	0.5	0.8	B
Portuguese China	0.01	0.02	B
Saudi Arabia ..	3.4	2.8	B
Syria	2.4	2.9	D
Thailand	4.6	6.8	B
AUSTRALASIA			
Australia	188.6	256.1	A
Solomon, Gilbert and Tonga Islands	0.2	0.2	A
Fiji	1.6	1.8	A
New Zealand ..	64.7	86.6	B & E

For some countries two code letters are given to indicate variable import conditions.

Summary

The survey shows that in fifty-six markets there is a straight chance of being able to export and a fair chance in a further fifteen markets. Of the eighty-nine countries only eighteen markets generally offer no chance for most manufactured goods. In the previous survey only thirty-eight markets offered a straight chance, whilst seventeen offered a fair chance. Manufacturers may care to check whether they have done business with all of the markets at least in categories A, B and C(*1*) and possibly in C(2) and D. It may also be of interest to see whether they have had business in each of the sixty-seven markets showing an upward trend between the export figures for 1949 and those of 1950, and whether their own turnover has shown a similar trend.

TRADE MARKS

From the "Trade Marks Journal," November 14

For pharmaceutical preparations (5).

PABALATE, 700,911, by the West Hartlepoo Drug Co., Ltd., West Hartlepool. SULPENIN 701,006, by Allen & Hanburys, Ltd., London E.2. PRIMOLUT, PRIMOGONYL, 696,424 701,051, by Schering, A. G., Berlin. ESTAND RON, 701,121, by Organon Laboratories, Ltd. London, W.C.2. DUROMORPH, 701,744, by Jacob Rabinovitch, London, N.16.

For medicines for human use (5).

FEBRINA, 696,647, by R. C. Gooptu & Sons Calcutta.

For pharmaceutical preparations for human and veterinary use, sanitary substances, and disinfectants (5).

TRELCOVITE, 701,526, by Frederick Turrell & Co., Bolton.

For photographic and optical apparatus and instruments (9).

AICO, B698.592, by Apparatus and Instrumen Co., Ltd., London, S.W.14.

For razors (8).

PLANETTE, 700,125, by John Plesch, Ayles bury.

From the "Trade Marks Journal," November 2

For chemical substances for use in manufactur and photography (1).

NEOBOR, 701,580, by Borax Consolidated, Ltd. London, E.C.4.

For cleaning preparations for removing nail cos metics (3).

LACQUIT, 697,821, by Anne Scott, Birming ham.

For oil for the treatment of the nails (3).

NAILLAX, 701,025, by Mary Helen Youde Salford.

For insecticides, and fungicides (5).

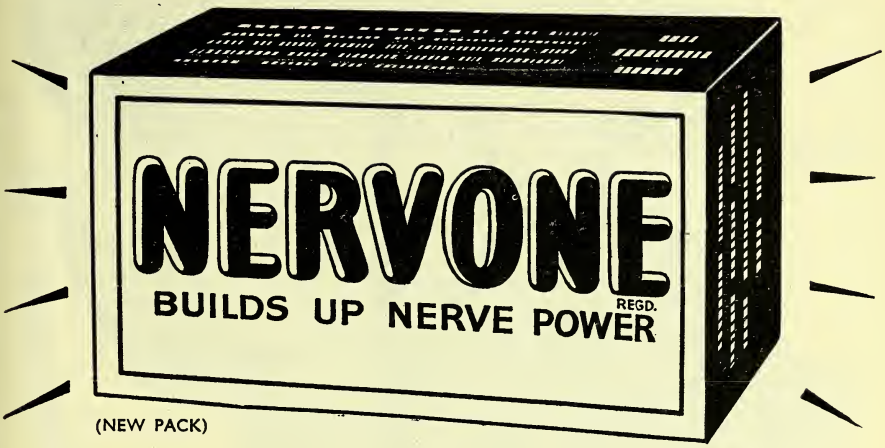
GAMMALIN, 698,548, by Plant Protection, Ltd. Yalding.

Answers to Revision Questions

1. Substitute a non-ionising emulsify ing agent (e.g., Polawax) for emulsifying wax and thus avoid the incompatibility.

2. Comments. Oil is present to th extent of 50 per cent. This is a satisfactor phase-volume ratio. Although possible t make on a small scale this emulsion i better made by a machine because of th small quantity of acacia. The quantit of agar is such that the preparation wil not set to a jelly but is sufficient to requir only a small quantity of the more expen sive tragacanth. Sodium benzoate is pre sent as a preservative to the extent of 0.1 per cent. Vanillin and oil of lemon are th flavours of choice—a result of many trials Glycerin is a sweetening agent, not a pre servative since it is bacteriostatic only a concentrations of 40 per cent. or more.

Every day the 'NERVONE' message goes out to customers in your area!



(NEW PACK)

CONSISTENT advertising has created a lively demand for 'NERVONE' the new biochemic formula. An intensive Press and screen campaign will further increase the demand for this fine preparation. More and more of your customers will ask for 'NERVONE' and experience has shown that 'repeats' and recommendations flow freely from initial orders. It will pay you to stock and display 'NERVONE'!

ONE SHILLING AND SEVENPENCE PROFIT ON EACH SALE!

'NERVONE' CECIL HOUSE, HOLBORN VIADUCT, LONDON



Be wise – sell *Wisdom* REGD.



BECAUSE . . . Addis' new campaign for Wisdom toothbrushes is going to hit the public right in the eye — make them more Wisdom conscious than ever. Because Wisdom is the most profitable toothbrush for you — it sells better and quicker. Because your customers can take their pick of Nylon (Round-ended) or Natural Bristle . . . be wise and sell Wisdom.

THE *QUICKEST SELLING* TOOTHBRUSH

MADE BY ADDIS LTD., OF HERTFORD

Midgley's Toilet Soaps

Gladys Cooper's

LUXURY COMPLEXION SOAP

A finely milled toilet soap in 3oz. and 6oz. tablets. Each tablet is attractively wrapped in cellulose film and 1 dozen tablets are supplied in a handsome display outer.
Retail price 3oz. 1/- 6oz. 1/7½d



ALSO

Midgley's

SUPERCREAM TOILET SOAP

A long established soap at a reasonable price. 3oz. tablets. *Retail price* 7½d

378

CHARLES MIDGLEY LTD

Sole distributors

EVANS MEDICAL SUPPLIES LTD Liverpool & London

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concerning

CURLY TOP, CURLEX & VOSENE

Vosemar Limited wish to make it perfectly clear that they are the sole manufacturers of Curly Top for Kiddies' Curls, Curlex for Ladies' Curls and Waves, and Vosene—the specialist shampoo. At no time have Vosemar Limited been associated with any firm making similar products.

Address your orders for CURLY TOP, CURLEX and VOSENE — three increasingly popular selling lines to be extensively advertised again in 1952 — direct to

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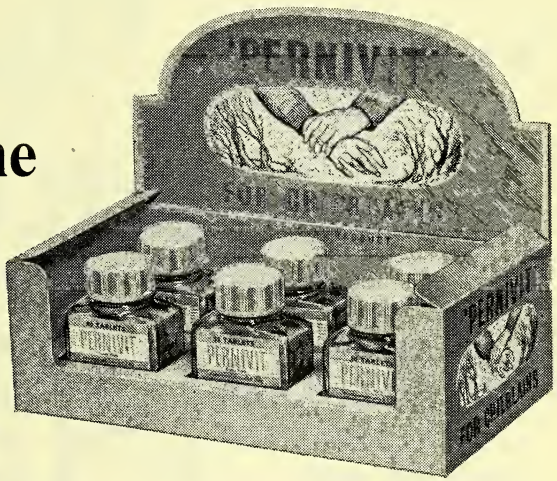
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'PERNIVIT'

Nicotinic Acid B.P. and Acetomenaphthone B.P.

	TRADE	RETAIL
Bottle of 50 tablets	2/-	3/-

THE BRITISH DRUG HOUSES LTD. LONDON N.1

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For all that is best in hair beautifying preparations

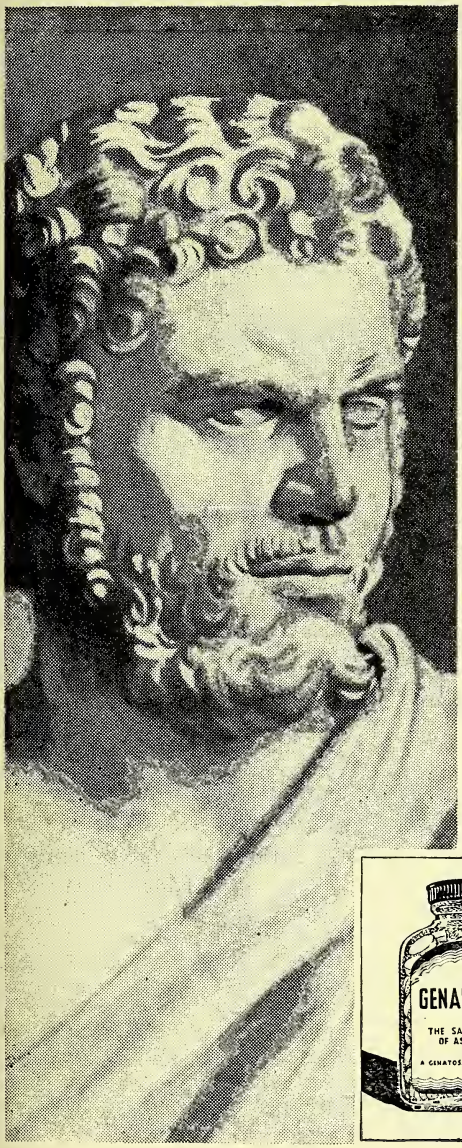
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WAVE SET

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Handsome Profit
Steady Demand
Well advertised
Firm Reputation

Show them and you'll sell them!

EVAN WILLIAMS COMPANY LTD., *Sales Dept.*, AINTREE ROAD, PERIVALE, MIDDX.



He used crushed vine leaves

But today there is a better formula for that headache business

HEADACHE?—take the "leaves and tendrils of ye wine-bearing Vine, beaten small and laid on with Polenta*," advised Greek herbalist Dioscorides 1,800 years ago. "Headache?—take Genasprin," says the modern chemist to his customers.

Genasprin, the safe brand of aspirin, is an elegant product of the famous House of Genatosan. To your customers this reliable, long-established remedy means *quick* relief "at any time of strain or pain". To you it means sure, profit-making sales. To those suffering from headaches, colds, rheumatism and 'flu the best professional service you can offer is to recommend Genasprin.

**Gunther's translation, O.U.P., 1934*

FACTS ABOUT 'GENASPRIN' Regd.

FORMULA: **Each tablet contains Acetylsalicylic Acid—5 grains.**

PROFIT: **50% on cost price, plus 10% when bought on display discount terms.**

PACK: **10-tablet tube 10d. Bottles —28's, 1/9d.; 50's, 2/9d.; 100's, 4/10d.**

MAKERS: **Genatosan of Loughborough.**

Issued by **GENATOSAN LTD**

makers of better products for the community you serve

'COGENE' ★ 'SANATOGEN' ★ 'GENATOSAN' MENTHOL AND WINTERGREEN CREAM ★ 'SYTE' EYE LOTION, etc.

521

Firm Favourites *with all the family*

Every woman wants bathtime luxury and day long freshness — sell her delicately perfumed mildly medicated Cuticura Soap and Talcum Powder. Many of your customers have a "problem skin" — Cuticura Ointment is the perfect answer.

Baby loves the soothing comfort of mildly medicated Cuticura Soap, Talcum, Ointment. Recommend Cuticura for chafing and nappie rash, and convince all careful mothers that nothing else will do for baby's tender precious skin.

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Cuticura
MEDICATED & TOILET
SOAP · OINTMENT · TALCUM · SHAVING STICK

WISE CHEMISTS STOCK AND DISPLAY
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Have you seen THIS

new beautifully designed showcard size 23" x 17½" in full colours?

With the two side panels 17" x 10½" each also supplied, the whole makes an attractive window display that compels attention, and creates sales.

THE COMPLETE SET IS FREE. Ask our representative, or write to us for your FREE set.

EDME "AUTUMN SUN" is *the* Malt and Oil with the *"taking flavour."*

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Why be
ANONYMOUS?

YOU can sell high-quality, well-packed pharmaceuticals, with your name and address printed—*as no extra charge*—on an attractive, sales-compelling label.

YOU can choose from 12 designs in any of 6 colours, and your design will be exclusive to you over a large area.

YOU will find that the prices of our packed pharmaceuticals are really competitive. Ask the representative to show you our range.

YOU are assured that our prompt service will deal with all your orders efficiently and with the minimum of delay.

For details of this sales-building scheme, write to:- Home Sales Manager, S. Maw Son and Sons Ltd., Barnet, Herts

MAW'S

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A FIRST CLASS GIFT LINE

Showing a Worth-while Profit

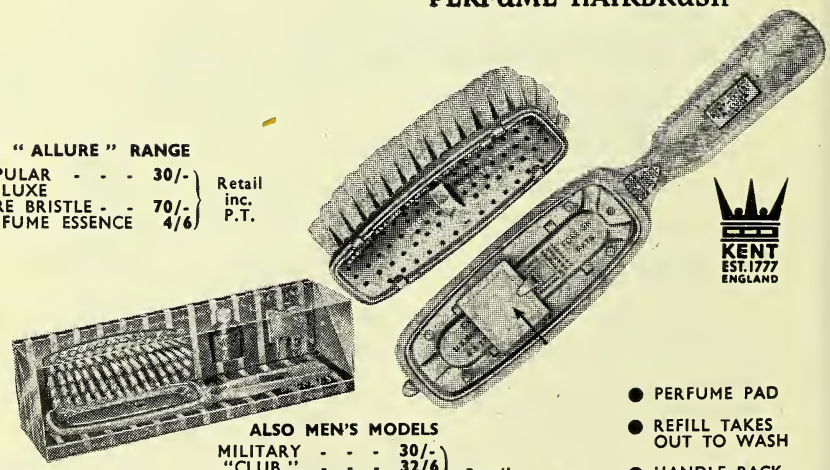
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Brushmakers
G. B. Kent & Sons Ltd.

It pays to make a window or counter display of the NEW MODERN GIFT DISPLAY PACKS now being supplied with all Kent-Cosby "Allure" Perfume Hairbrushes which give a worth-while profit per brush.
Many hundreds of thousands of discerning women have bought KENT-COSBY "ALLURE" PERFUME HAIR-BRUSHES.
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The KENT-COSBY (PATENT)

"Allure"

PERFUME HAIRBRUSH



THE "ALLURE" RANGE

POPULAR DE LUXE	30/-	Retail inc. P.T.
PURE BRISTLE	70/-	
PERFUME ESSENCE	4/6	

ALSO MEN'S MODELS

MILITARY	30/-	Retail inc. P.T.
"CLUB"	32/6	
MILITARY in PURE BRISTLE	60/6	
"CLUB" in PURE BRISTLE	63/-	

NATIONAL ADVERTISING COMMENCED NOVEMBER

- PERFUME PAD
- REFILL TAKES OUT TO WASH
- HANDLE BACK NEVER SPOILT BY WATER
- ABSOLUTE CLEANLINESS AT BRUSH BASE

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"Oh for something NEW this Xmas!"

Well here is something really new at the right price, and with the right appeal to make it a really outstanding Xmas Line.

The "Bloom of Youth"

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MASSAGE COMPLEXION BRUSH

By Appointment
Brushmakers
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What does it cost? 15/6 retail, including purchase tax—a small price that any woman would be willing to pay to keep her complexion young and beautiful.

How is it Packed? In individual acetate Gift Packs—the smartest you have ever seen—sent out in trays holding half a dozen. A Showcard and descriptive leaflets are included.

Will it be Advertised? Yes. In the widest read Women's Magazines—it has already been written up and recommended in quite a few.

Delivery? From stock, but please hurry as stocks are going down fast.



Use with soap and water instead of a face cloth

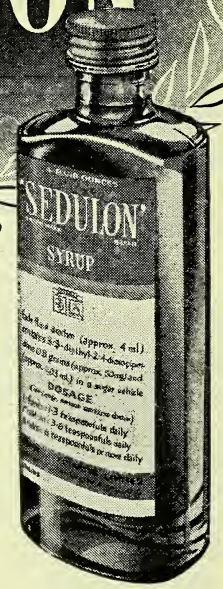
KENT EST. 1777 ENGLAND

NATIONAL ADVERTISING COMMENCED NOVEMBER

G. B. KENT & SONS LTD.
24 OLD BOND STREET, LONDON W.1.
Telephone: REGENT 1471-2-3 Telegrams: TRICHO, PICCY, LONDON.

For Irritating Coughs

'SEDULON'



Sedulon is a palatable syrup, recommended for cough of nervous origin, such as smokers' cough or the residual cough of pertussis, measles and influenza.

for **INFANTS • CHILDREN • ADULTS**

in bottles of 4 fl. oz. and 16 fl. oz.

ROCHE PRODUCTS LIMITED

FOR CHEMISTS

Richard Daniel & Son LTD



DRUGS SUNDRIES

Manufacturing Chemists

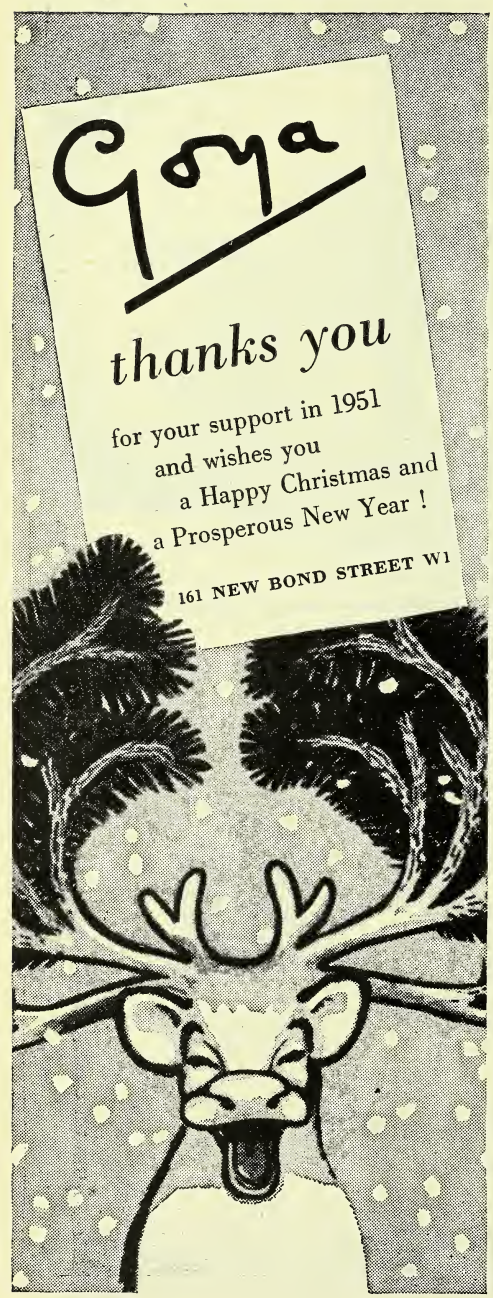
PILLS · TABLETS
PROPRIETARIES

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)
BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

Creative printing
FOR OVER 70 YEARS

LABELS CARTONS AND OTHER SPECIALIZED PRINTING

THOMAS WAIDE & SONS LIMITED
KIRKSTALL HILL LEEDS.5.





Keep it **DARK** *with*

SHADEINE

— Your SALES are assured if you stock SHADEINE !

Still the best hair tint. In all natural shades. Stocked by all wholesalers. Trade prices—1 oz. 16/9 per doz., 2 oz. 29/7 per doz. Purchase Tax 100% Retail Prices 3/3 and 5/9 per bottle respectively. Also the new GOLDEN SHADEINE for lightening mousey hair. 2 oz. 16/9 per doz., 4 oz. 29/7 per doz., Purchase Tax 100%. Retail Prices 3/3 and 5/9 per bottle respectively.

THE SHADEINE CO
49 Churchfield Rd.Acton, London, W

Recommend to your customers

Ralgex

ANALGESIC — RESOLVENT
COUNTER-IRRITANT

SOLID EMBROCATION

for
RHEUMATIC and MUSCULAR PAINS
NEURALGIA and HEADACHES
BRONCHITIS, CATARRH and LARYNGITIS

Handy, clean, practical and efficacious. Prescribed by doctors and regularly advertised in medical and nursing journals. Packed in artistic counter-display outers containing 1 doz.—a great aid to individual sales.

Write for trade terms, samples & literature.

PHARMAX LIMITED

The Organ Works, Old Hill, Chislehurst, Ken



OCTOBER



NOVEMBER

These are the months when the incidence of head colds and distressing complications assumes serious proportions, and the demand for 'Sulfex' soars. Ensure that your customers suffer no delay in getting their prescriptions dispensed by holding a representative stock.



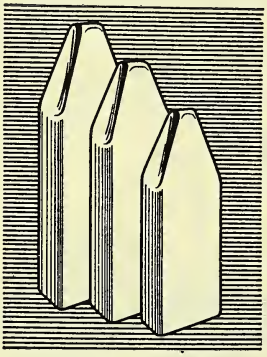
DECEMBER

'Sulfex' — Check your stocks now

Issued for prescription only in 1-oz. bottles with dropper. Trade price 40/6 per dozen (exempt from Purchase Tax). 'Sulfex' is a Schedule IV preparation.

MENLEY & JAMES, LIMITED, Coldharbour Lane, London, S.E.5
for Smith Kline & French International Co., owner of the trade mark 'Sulfex'

SXTI01



WRAP YOUR BOTTLES

in

Certor WRAPPING PAPER

THESE LINES ARE TAX-FREE—

	Size	Ream
WHITE AND COLOURED TISSUES		
Light Blue, Dark Blue, Light Green, Dark Green, Rose, Mauve and White	19½″ x 29½″ / 8/10 oz.	21/9 / 4/-
COLOURED SULPHITE		
Green, Mauve and Claret	20″ x 30″	39/6
GLAZED IMITATION PARCHMENT		
WHITE DISPENSING	17½″ x 22½″	36/9
PURE SWEDISH KRAFT	18″ Counter Reels	72/- each

	Powders	Oz.	1	2	3/4	6	8/10	12/16
Ream	1/9		3/2	3/11	6/4	7/8	9/6	13/6

THIS IS SUBJECT TO TAX—

BEST WHITE DISPENSING

	Powders	Oz.	1	2	3/4	6	8/10
Ream	1/9		3/2	3/11	6/4	7/8	9/6

Purchase Tax: 33⅓%

TWINE		4 oz. balls	8 oz. cheeses	16 oz. cheeses
Coloured Medical	Doz.	31/-	62/-	—
No. 104 Cotton Twine	„	18/6	37/-	74/-

SEALING WAX .. .. 4/8 lb. *Purchase Tax* 33⅓%

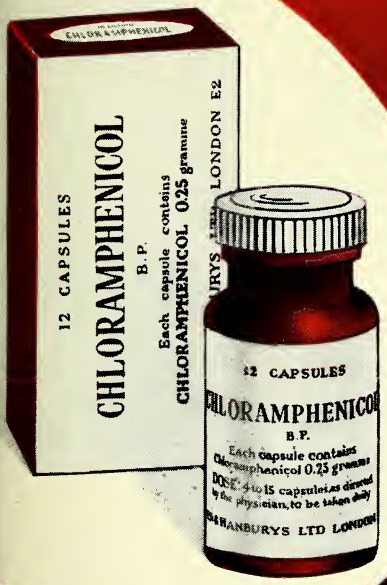
MACDONALD & SON LTD.

HOPE MILLS · POLLARD STREET · MANCHESTER

Now available!

CHLORAMPHENICOL

B.P.



PRESENTATION

Bottles of 12 capsules each capsule containing 0·25 gramme

FOR SERVICE

OBTAIN WITH YOUR ORDER FOR

PENICILLIN PREPARATIONS A&H

from

ALLEN & HANBURYS LTD LONDON E2

B



pro



quid pro quo

For many years the I.C.C. have offered a generous Display Bonus — one, too, that is allowed in cash, not in goods. I.C.C. have always referred to the bonus offer as a "Co-operation discount".

But recently there has been a tendency to regard the offer as one of a cash discount depending only upon the size of the parcel bought. I.C.C. have no quick means of judging how widespread this tendency may be . . . so now, in order to clear any doubts, the I.C.C. Display Bonus terms are here clearly set out :—

quid • • • **what we ask from you . . . 14 days window display, including "KOLYNOS" DENTAL CREAM, "ANADIN" and "BiSoDoL", after you have received your special bonus parcel.**

These 14 days of display will help you reap the greatest advantage from the very extensive I.C.C. advertising that is directing purchasers all the time to *your* counter.

quo • • • • **in return for your undertaking to give 14 days display following the delivery of the parcel, I.C.C. give these special window display bonus terms :—**

On a parcel of more than £5 but less than £10 in value 10%

On a parcel of the value of £10 and over 12½%

ICC WINDOW DISPLAY BONUS

INTERNATIONAL CHEMICAL COMPANY LIMITED

CHENIES STREET, LONDON, W.C.1

GABAIL

The first step in all Nervous Affections

ELIXIR GABAIL

undoubtedly the most pleasant and effective of all Valerian preparations

enjoys high preference because of its nervine and sedative effect without resort to barbiturates

Dosage :
One tablespoonful in water twice or thrice daily
As a hypnotic: two tablespoonfuls at bedtime
Supplied in bottles of 187 c.c., 16 oz., and in bulk for dispensing

---

Anti-spasmodic and sedative treatment for Whooping Cough

SYRUP PERTUSSIS

(GABAIL)

A logical combination of Valerianate with expectorants, Bromide and Chloral Hydrate

Literature and Sample on request

Available in bottles of 4 oz., 16 oz., and 40 oz.

Free from objectionable odour and taste

---

for the treatment of RHEUMATISM

SODIUM GENTISATE

(GABAIL)

Messrs. GABAIL LTD. are pleased to make SODIUM GENTISATE generally available to the Medical Profession in this country.

Dosage : Upwards of two tablets t.i.d.
Supplied in bottles of 60 and 500 tablets.

Similar in results to salicylate treatment but—
No reduction of prothrombin level
No tinnitus or aural symptoms
No gastric irritation
No lowering of alkaline reserve

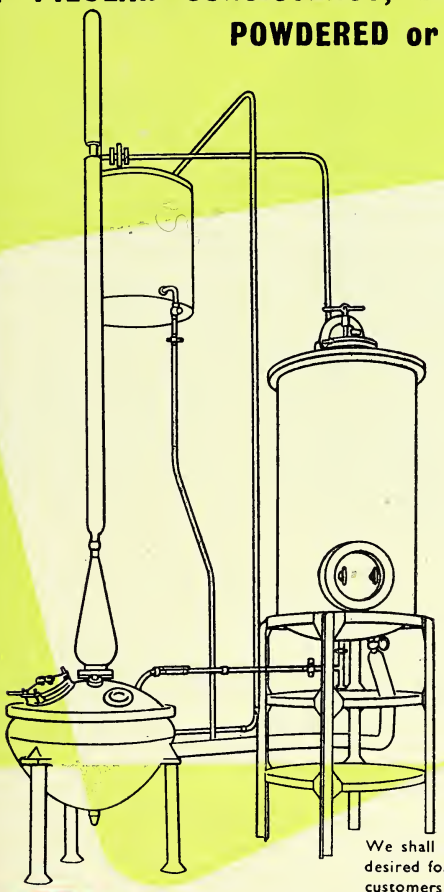
THE ANGLO-FRENCH DRUG CO. LTD.

11-12 GUILFORD STREET, LONDON, W.C.1

Telephone: HOLborn 6011 Telegrams: Ampsalvas, London

POTTER'S Extracts

LIQUID EXTRACTS, SOLID or SOFT EXTRACTS of PILULAR CONSISTENCY, DRY EXTRACTS, POWDERED or GRANULATED.



Modern apparatus combined with scientific knowledge and experience have enabled us to produce the finest extracts available.

We shall be pleased to supply extracts in any desired form, made specially from the drug, to customers own requirements.

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Phone : BLACKFRIARS 8734 *Grams : Horehound, Manchester*
62 ORBISTON STREET, MOTHERWELL
Phone : MOTHERWELL 1413 *Grams : Horehound, Motherwell*
Agents in Northern Ireland :
HAROLD MITCHELL & Co. Ltd., 321 Grosvenor Rd., BELFAST. Tel. 24356

P.C.T. 39

Where experience counts. 2



Field of Henbane just before harvesting

Careful propagation, expert husbandry and carefully timed harvesting —all are vital to the raising of sound medicinal plants.

William Ransom & Son Ltd., have over 100 years' experience of drug growing and their wide knowledge is reflected in the high quality of their products.

ACTUAL GROWERS OF

BELLADONNA · HENBANE
PEPPERMINT
FOXGLOVE · CHAMOMILE
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EXTRACTS
(Solid and Liquid)

TINCTURES · RESINS
OLEO-RESINS · RESINOIDS
ESSENTIAL OILS · CHLOROPHYLL



MANUFACTURING CHEMISTS AND GROWERS OF MEDICINAL PLANTS FOR OVER A CENTURY

WILLIAM RANSOM & SON LTD.
Hitchin Hertfordshire England

☆ *it's new!* ★ *it's intriguing!*



IT'S THE

ARVIN *Wind-a-Pak*

One more example of Arvin leadership . . . the Wind-A-Pak. This ingenious new container which combines beauty with utility, is available only with the **ARVIN 'DE LUXE' ELECTRIC DRY SHAVER.** Together, they look intriguing in the window, and are ideal for counter display. The Wind-A-Pak is going to make many new friends for this Arvin electric dry shaver. Like its sister model 'Consort', the 'De Luxe' has the outstanding Slim-Twin head feature. Both are popularly priced. 'Consort' 59/6 (AC only), 'De Luxe' £4.16.1d. (AC/DC), Tax paid.



ARVIN ELECTRIC LIMITED

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D

A Name and a Standard

"SURE SHIELD"

(Reg'd. Trade Mark)

BRAND

—

IODISED THROAT LOZENGES

—

GLYCERINE of THYMOL PASTILLES

—

FRUIT LAXATIVES

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LOZENGES · PASTILLES TABLETS

In bulk and ATTRACTIVE PACKS

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Thos. Guest & Co Ltd

Manufacturing Chemists

CARRUTHERS ST., MANCHESTER, 4

Tele. No.: Collyhurst 2975

Telegrams: "Guesto" Manchester

ROSE SCENTED bu-to REGD. HAIR REMOVER

UP GO THE SALES!

—as National advertising persuades more and more women that BU-TO, the *rose-scented* depilatory, is the only one for them! Tell YOUR customers about Bu-to's pleasant perfume. That's what makes them buy—and buy again!

Retail price 2/6 per tube inc. tax. Trade: 12/- per dozen plus tax. Packed in attractive 1 dozen display outers.

BIOMETICA LIMITED
BULLHEAD ROAD, BOREHAM WOOD, HERTS

NIPITS

PASTILLES



for VOICE, THROAT & CHEST

TEASDALE & CO. LTD., CARLISLE

Or-Lem

TRADE MARK

THE FINEST FRUIT SQUASH

The incomparable blend of Luscious Sun-ripe Orange Juice and the tang of Refreshing Lemon Juice

OR-LEM LTD., SOUTHAMPTON

DIXOR BEAUTY PREPARATIONS

DIXOR EXTENDS THE RANGE OF VELOUTY PRODUCTS

with Velouty Foundation Cream, Velouty Skin Food and Velouty Cleansing Cream. When you next order Velouty de Dixor Powder Cream include these new preparations. Display them side by side and create sales. Each preparation performs a special task in the art of achieving complexion beauty.

Velouty de DIXOR

The ORIGINAL combined POWDER CREAM

A modern cosmetic, giving the skin a natural rose-petal elegance. Presented in five delightful shades, for all the year round—day or night—make-up. Tubes packed in attractive display outers of one dozen, and jars in display outers of half-dozen.



Shades :- PEACH IVORY OCHRE NATURAL SUNGOLD

	POTS	TUBES No. 2	TUBES No. 3
TRADE	12/- doz.	5/2 doz.	9/6 doz.
RETAIL	2/6 each	1/1 each	2/- each

Velouty FOUNDATION CREAM

Ideal for use as a powder base, and make-up foundation. Soothes the skin when chafed and prevents roughness. Tubes only. One dozen in attractive display carton.

TRADE 9/6d. doz.
RETAIL 2/- each.



Velouty SKIN FOOD

Restores any deficiency of natural oils, keeping the skin supple and free from blemishes, wrinkles and rough and dry patches. Tubes only. One dozen in attractive display carton.

TRADE 9/6d. doz.
RETAIL 2/- each



Velouty CLEANSING CREAM

Provides the most effective way of removing old make-up. Particularly suitable for skins that tend to dryness. Tubes only. One dozen in attractive display carton.

TRADE 9/6d. doz.
RETAIL 2/- each.



DIXOR LTD.

ST. LEONARDS WORKS, MORTLAKE. S.W.14.

21 Million People

will read

Ramer Sponge

ADVERTISEMENTS IN MANY LARGE CIRCULATING MAGAZINES

Christmas Labelled Stock is still available from :-



Bath Sponge	.. ..	6/8 each
Toilet „	.. ..	4/6 „
Junior „	.. ..	2/9 „
Baby „	.. ..	1/9 „
Leg „	.. ..	1/3 „
Cosmetic „	.. ..	8d. „

THOS. CHRISTY & CO. LTD.

ALDERSHOT. (Sole Distributors)

"Bemax is used regularly in 500,000 homes... and the number increases daily"

"These facts are revealed by a recent survey carried out in Great Britain. A most interesting survey, which also shows that the value of Bemax is amply confirmed by the recommendations of my professional colleagues—doctors, nurses, welfare workers, everywhere.

"And remember, one of the brightest advertising campaigns of recent years—in which I am privileged to appear regularly—is still being waged persistently in 'Radio Times' and other periodicals on behalf of this invaluable dietary supplement.

"Do hope your customers are able to *see* that you always have Bemax in stock."



BEMAX ***Stabilized Wheat Germ***

the richest natural vitamin-protein-mineral supplement

PRICES

	Doz.	Quantity Terms
1/9 *carton at*	16/6	16/- doz.
3/- „	28/6	27/3 „
5/6 „	52/6	50/- „

Quantity terms available on minimum orders of 3 doz. x 3/0 or the equivalent in the 1/9 & 5/6 sizes (1 x 3/0 = 2 x 1/9 = ½ x 5/6)

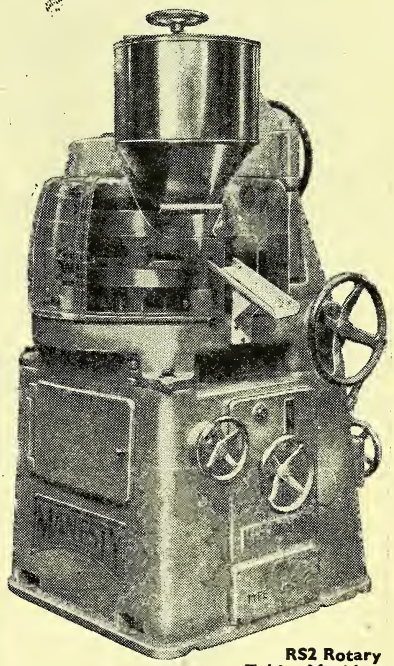
VITAMINS LIMITED, UPPER MALL LONDON, W.6

MANESTY

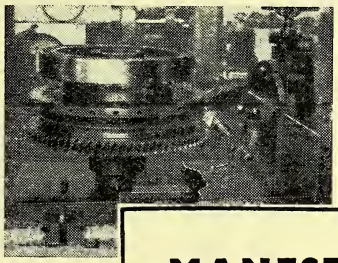
means precision-built

Leading tablet makers throughout the World have long recognised that the name MANESTY on tablet preparation and compressing machinery is an assurance of all that can be desired in accuracy of construction and reliability of performance. Behind the name MANESTY there now lies the skill and experience of its associated company — John Holroyd & Co., Ltd., who for over 70 years have specialised in the production of machine tools and precision gearing, and who made rotary tablet machines more than 50 years ago.

MANESTY
MEANS
PRECISION-BUILT



RS2 Rotary Tablet Machine



Testing rotary turret on Holroyd gear testing machine.

MANESTY MACHINES LTD

DEPT. 5, SPEKE, LIVERPOOL, 19

Telephone: Hunts Cross 1972. Telegrams: Manesty, Liverpool

TABLET MACHINES · COATING PANS GRANULATORS DRYING OVENS · MIXERS AUTOMATIC WATER STILLS

AYRTON
SAUNDERS
& CO. LTD.

Pharmacy's finest Service for Eighty years—and now

DRUGS . . . . . GALENICALS . . . . . PENICILLIN . . . . . TABLETS
PACKED GOODS . . . . . PROPRIETARIES . . . . . SUNDRIES
FANCIES . . . . . PATENTS . . . . . CORKS and BOTTLES

32-36 HANOVER STREET
***Laboratories*: 32-42 DUKE STREET**

LIVERPOOL

Only 10 months old—but he's working for you



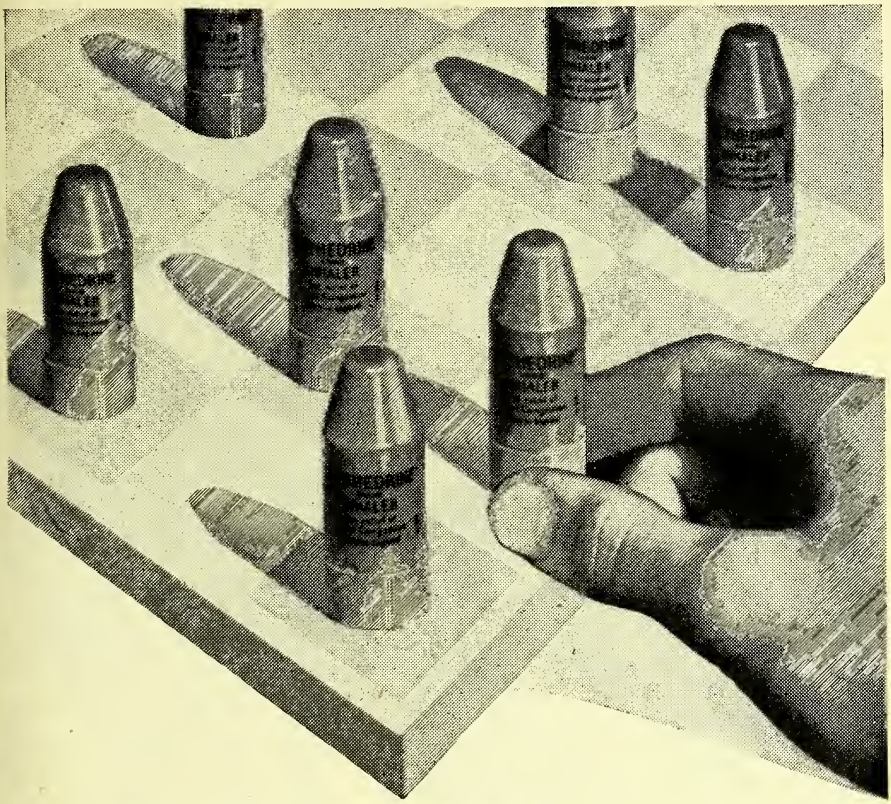
This picture appears in the current advertising for Heinz Strained Foods.

Twenty-eight magazines, bought by over eleven million women, carry this advertisement, which is one of a series in the educational campaign run by Heinz to explain modern principles of infant feeding to mothers.

As a recent national survey has shown, most mothers nowadays give their babies *canned* strained foods, and the overwhelming majority of them choose Heinz.

57 HEINZ
STRAINED FOODS
16 Varieties. Now 7d. retail





A prudent move for profitable trade

Review your stocks of the 'Methedrine' Inhaler. Order now to meet the seasonal demand. By so doing you will make a prudent move in winning profitable trade. Available in three gay colours, the 'Methedrine' Inhaler will be sent you smartly cartoned in display-outers holding 24. Also at your service to stimulate sales are a striking display-stand and a showcard.

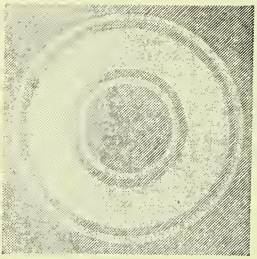
BONUS TERMS: one Inhaler or two refills free with every 24 you order.

RETAIL PRICE: 2/- plus 6d. purchase tax.

The 'METHEDRINE' INHALER

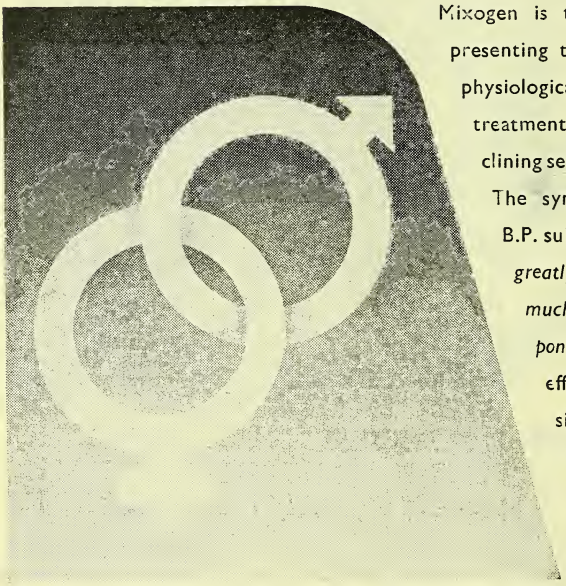
BRAND

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)* LONDON



NEW ADVANCE

in sex hormone therapy



Mixogen is the new Organon preparation presenting the male and female hormones physiologically balanced in one tablet for the treatment of all signs and symptoms of declining sex hormone function in either sex. The synergistic combination of these B.P. substances confers *beneficial results greatly exceeding any obtainable with much larger doses of either of the components alone*, without the unwanted effects often associated with one-sided sex hormone therapy. The remarkable sense of renewed mental and physical vitality is a notable feature of the treatment.

The tablets are FREELY PRESCRIBABLE UNDER THE N.H.S.

"MIXOGEN" contains 0.0044 mg. ethinylœstradiol B.P. and 3.6 mg. methyltestosterone B.P. in each tablet.

MIXOGEN

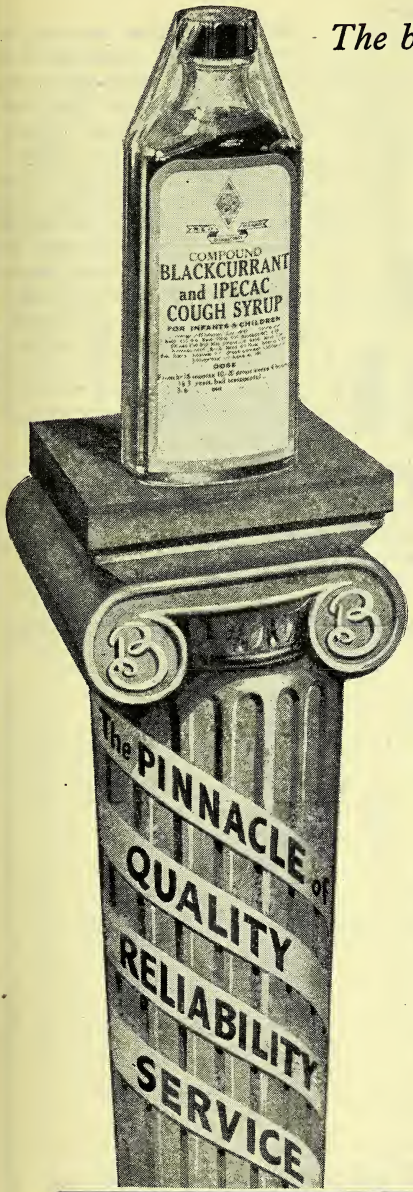
Male and Female Hormones in 1 tablet

In Perspex tubes of 25 tablets and in bottles of 100, 250 and 500.
Price List on request.

ORGANON LABORATORIES LTD

BRETTENHAM HOUSE, LONDON, W.C.2

TEMple Bar 6785-6-7
TEMple Bar 9251-2



The best of their kind,
always 'above' the average



The 'Red Diamond' series of PASTILLES including

ANTISEPTIC THROAT
CATARRH
GLYCERINE of THYMOL

10/- a doz. plus tax 33⅓rd

Compound
BLACKCURRANT and IPECAC COUGH SYRUP

A delicious, delectable and efficacious preparation for ALL children and their parents

4 oz. size 8/9 a doz.
8 oz. size 11/6 „ „
plus tax 33⅓rd.

A "RED DIAMOND" PRODUCT

BURGOYNE BURBIDGES
Established 1741. & COMPANY LIMITED, **LONDON. E.6**



MYSORE

Since 1913, when the Mysore Department of Industries was instituted, the industrial development of Mysore has gone steadily ahead. Plans in hand to develop still further Mysore's vast resources will continue a record of progress that has earned for Mysore its proud title of "The model state of India." One of the most famous of its many products is sandalwood oil. Made in the Government sandalwood oil factory, strict supervision during every process guarantees a standard of purity and quality that is unequalled.

SANDALWOOD OIL

For further information apply to

TRADE AGENT FOR MYSORE

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May we quote you for—

GLAUBER SALTS B.P.

Pea Crystal and Feathery

EPSOM SALTS B.P.

Needle Crystals, Medium, Exsiccated

All grades conform to the 1948 B.P. Standard

Special Crystals matched to order. and any degree of exsiccation Packed for Home and Export.

HARRIS, HART & Co. Ltd.

GREGGE STREET WORKS
HEYWOOD, LANCS.

Telegrams: Harp, Heywood, Lancs.

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AUSTRALIAN EUCALYPTUS OIL
(B.P. 80/85%)

MENTHOL CRYSTALS
(Chinese and Brazilian)

PEPPERMINT OIL
(M. Arvensis and M. Piperita)

AGAR AGAR

REFINED CAMPHOR
(Powder, Slabs and Tablets)

CITRIC ACID B.P.

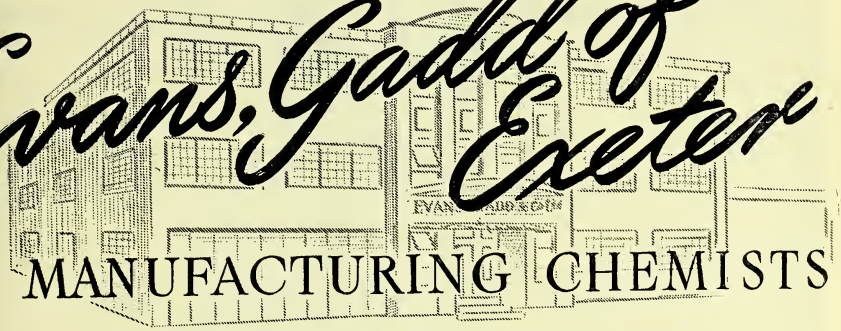
TARTARIC ACID B.P.

ESSENTIAL OILS

DRUGS, GUMS AND WAXES

Wm. Chas. BRUMLEU
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IMPORT — EXPORT
Established 1854
4-5 HOGARTH COURT, FENCHURCH ST., E.C.3 *Tel.: MANsion House 3150—2930*

Evans, Gadd of Exeter



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Drugs, Galenicals, Packed Goods and Sundries for the Pharmaceutical Trade

Wholesale Distributors of Ethical Specialities and Proprietary Medicines

Regular van deliveries cover the West of England ● *Return of post service for urgent items*

EVANS, GADD & CO., LTD., EXETER

ESTABLISHED 1790

Telephone: Exeter 2278 (3 lines) *Telegrams:* Gadd, Exeter

CHLOROPHYLL

WATER SOLUBLE FOR MEDICINAL USE IN PASTE OR POWDER FORM—Non-toxic

for the manufacture of Anti-deodorant Tablets, Ointments for the treatment of Wounds, Ulcers, Burns, etc., and for Dental purposes.

We guarantee the correct strengths of Chlorophyllin in the following:—
8% Paste - - - - 12% Paste - - - - 16% Powder

Oil and Spirit soluble any colour strength please apply for samples and further information

BULK SUPPLIES ONLY for manufacturers

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PENICILLIN PREPARATIONS

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EUCALYPTUS OIL B.P.
SASSAFRAS OIL
CADE OIL B.P.

QUATERNARY AMMONIUM COMPOUNDS

Now available commercially

LEDA CHEMICALS LTD., are pleased to announce that they are now manufacturing the following quaternary ammonium compounds in commercial quantities:—

Lauryl Pyridinium Chloride · Lauryl Pyridinium Chloride (broad cut) · Cetyl Pyridinium Chloride
Lauryl Dimethyl Benzyl Ammonium Chloride
Cetyl Dimethyl Benzyl Ammonium Chloride
Stearyl Dimethyl Benzyl Ammonium Chloride

ALSO AVAILABLE: HIGHER ALKYL CHLORIDES, broad and narrow cuts from C_8-C_{18}. Data sheets and full information gladly supplied on request.

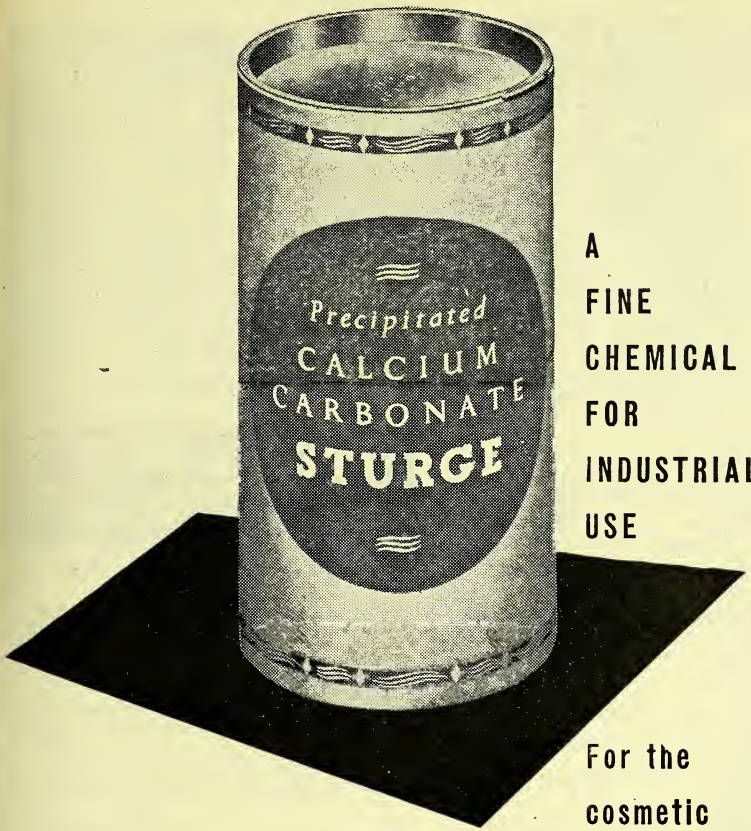
LEDA CHEMICALS LTD., Wharf Rd., Ponders End, Middx
Tel. No.: HOWard 2231 Tele. Address: Ledakem, London

TANNIC ACID

(Bulk Supplies Only)

AND DERIVATIVES

THE BRITISH DYEWOOD COMPANY LIMITED
19 St. VINCENT PLACE, GLASGOW, C.1



A FINE CHEMICAL FOR INDUSTRIAL USE

For the cosmetic manufacturer there is a special grade called AEROMATT

JOHN & E. STURGE LTD

1 WHEELEYS ROAD, BIRMINGHAM 15

A STURGE PRODUCT

JKL

Agar Agar
Aloes
Cantharides
Cascara Sagrada
Cochineal
Condurango Bark
Ergot of Rye
Grindelia Herb
Liquorice
Lobelia Herb
Papain
Peppermint Oil
Sabadilla Seed
Sarsaparilla
Wild Cherry Bark
Witch Hazel Leaves
and all other Botanicals,
Gums, Waxes, Essential Oils
and Spices

JOHN KELLYS (LONDON) LTD.
Gresham House, 24 OLD BROAD STREET, E.C.2
Telephone: London Wall 4882, 6585, 6586
Telegrams: "Ergotine, Stock, London"
Branches in New York and Hamburg

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PHARMACEUTICAL CHEMICALS
ALKALOIDS · DRUGS · OILS

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Manufacturers of

BENZOCAIN
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***p*-AMINO BENZOIC ACID**
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(Syn. LEPTAZOL B.P.)
DIPHANTOINE (DIPHENYLHYDANTOINE)
PURE, SODIUM AND CALCIUM

London Agents:
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BUSH LANE HOUSE, CANNON STREET,
LONDON E.C.4. Telephone: MAN 9030
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AMPOULES
Ampouled Injections and Powder Ampoules in large or small quantities. Specialist production under experienced Chemical and Medical supervision.
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As Imported or FinelyPowdered
ALL GRADES
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Telephone: Mansion House 0920

ATTENTION!
We can supply
DRIED YEAST B.P.C.
THE DISTILLERS CO. LTD.,
12 Torphichen Street,
Edinburgh, 3

WHIFFEN'S

Fine Chemicals

BROMIDES

POTASSIUM · SODIUM

AMMONIUM · STRONTIUM

MISCEL. ORGANIC

MISCEL. INORGANIC

BROMATES

TESTED PURITY

WHIFFEN & SONS LTD., FULHAM, LONDON, S.W.6

Telephone : RENown 3416

Telegrams : Whiffen, Walgreen, London

The strut behind every 'ASPRO' display

WHEN displays are backed with continuous national advertising—that's when they sell! Here's the support your 'ASPRO' display is getting this winter:

'ASPRO' films and filmlets showing in nearly 75% of Britain's cinemas.

'ASPRO' advertisements appearing continuously in National and Provincial Press.

'ASPRO' posters appearing on hoardings, newsboards and transport vehicles.

THE PUBLIC will be getting the 'ASPRO' message everywhere.



'ASPRO' DISPLAYS ARE SELLING DISPLAYS

P.A.T.A.

Made in England by
ASPRO LIMITED, Slough, Bucks

ASPRO

a case for concern . . .



. . . needing your kindly assistance.

Because you are continually needing fresh supplies for your customers, there is a continual need for containers. And the present lack of raw materials to make new containers makes this a case of emergency concerning us all.

So we must look to you to keep all containers for re-use.

The C.R.S van calls regularly to pick them up.

CONTAINER *recovery service*

IT MUST COME BACK C·R·S

S.P.D. LIMITED,

3-5, SALISBURY SQUARE, LONDON, E.C.4

CRS 79-1062-100

CALCIUM GLUCONATE
CITRIC ACID
CREAM OF TARTAR
ITACONIC ACID
ROCHELLE SALTS
TARTARIC ACID
LITHIUM SALTS

•

Est. 1870

Kemball, Bishop
& Company Limited

Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, London, E.3



display this OUTER for good repeat business

IN POCKET SIZE TINS, MEDIUM & LARGE

Flexoplast BRAND Regd

FIRST-AID DRESSINGS

OBTAINABLE FROM YOUR USUAL WHOLESALE SUPPLIER

Manufactured by

EDWARD TAYLOR LTD., MONTON, LANCS.

Established over 100 years



Flexoplast Dressing is also available in the new hygienic cartons. Size 1½" x 1 yard and 2½" x 1 yard.

THE COOPER LABORATORY · CL · ESTABLISHED 1904

Tablets and Pills

45 years' of Specialized Manufacturing Experience assure you of

QUALITY and ACCURACY

PACKED TABLETS, supplied in the usual size with Chemist's Own Name Labels if desired. Specimen Label designs sent on request.

BULK TABLETS, including NF lines, supplied in convenient quantities from 100 upwards.

SACCHARIN TABLETS, in packets of 100 or in bulk.

ASPIRIN TABLETS, packed and in bulk.

We specialize in the preparation and packing of proprietary lines of tablets.

Tablets made from customers own ingredients.

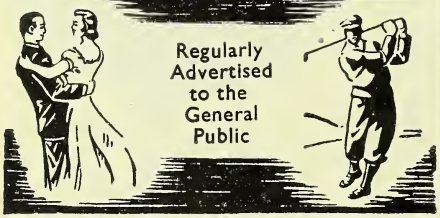
The Cooper Laboratory

Telephone: 3612 *Watford* Telegrams: "Science"

For Safe Control of Body Odour & Bad Breath

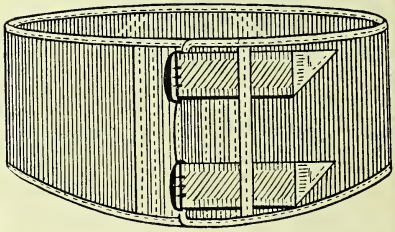
Odoban TABLETS

Nature's Deodorant



Manufactured in England by
BROOK, PARKER & CO. LTD., BRADFORD.

"CLIFTON"
— BRAND —
MEDICATED BODY BELTS
each in sealed envelope
CAPSICUM, WINTERGREEN OR IODINE FOR
LUMBAGO, RHEUMATISM, ETC.



MANUFACTURERS ALL APPLIANCES

CHARLES WILLIAMS & CO.
(Proprietor: A. G. PRICE)
STONEY STREET, BEESTON, NOTTS.

VULFIX SERVICE SHAVING BRUSHES



Obtainable through all wholesalers

Each Brush is a quality article and carries a two-year guarantee. Only pure bristles are used, and these well made brushes are certain to find the popular market.

Retail at **4/6, 6/9, 7/6, 9/6, 12/3, 12/6** and **21/-** each

THE BRUSH WITH THE TWO YEARS GUARANTEE

VULFIX "Service" PURE BRISTLE Shaving BRUSHES

THE PROGRESS SHAVING BRUSH CO. LTD.
Mottram Street, Stockport Phone: STOckport 2147 · 49 Leadenhall Street, London, E.C.3 Phone: ROYal 2857



THE SHAMPOO WITH SCALP PENETRATING ACTION

A NUCTA SPECIALITY PRODUCT

This attractive display stand carries the 8oz. Bottle which sells at 4/3½.

28/- per doz. plus tax

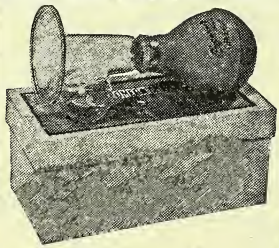
Also Full range of Toilet Specialities . . Violet Oil, Hand Lotion, After Shaving Lotion

Obtainable from your usual wholesaler or direct from the manufacturers :-

STEWART, GOODALL & DUNLOP LTD. 121a PRINCES STREET, EDINBURGH

FOR OVER 100 YEARS THE NAME Ingram's HAS HELD FIRST PLACE FOR ....

Surgical Rubber Goods of Quality!



Ingram's

'OMEGA' BREAST RELIEVER

Designed in collaboration with the Medical and Nursing professions, Ingram's 'OMEGA' Breast Reliever is a faultless production incorporating a first-quality rubber bulb and fitted with a flawless glass receiver. Boxed complete in display carton.

These have established their Supremacy!

Throughout Britain, the Empire and in many foreign lands, the name Ingram's, for over 100 years has become synonymous with all that is best in surgical Rubber goods of quality. In Hospitals, Health centres, Clinics and the home an Ingram's product is accepted with confidence.

J. G. INGRAM & SON, LTD
Hackney Wick, London, E.9

Ingram's

'PERFEX' ENEMA

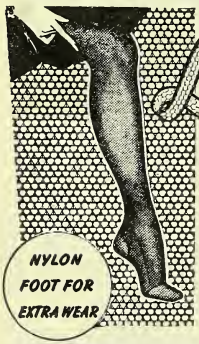
No Enema has enjoyed such universal approval as Ingram's 'PERFEX.' Beautifully finished in first-quality seamless rubber and perfectly hygienic. Complete with bone rectum pipe and rubber vagina pipe and leather shield. All housed neatly in attractive box.



FINE ELASTIC NET TO MEASURE

and you don't even have to stock them—to sell them!

Lastonet surgical stockings are sold for you through NATIONAL & MEDICAL JOURNAL ADVERTISING. All you need is a supply of measurement forms which we will gladly send to you together with display material and particulars of trade discount. Write today!



Lastonet

E-L-A-S-T-I-C NET STOCKINGS

★ MADE ONLY TO MEASURE
★ INVISIBLE under ordinary stockings
★ COOL TO WEAR

LASTONET PRODUCTS LTD. Carn Brea, Redruth, Cornwall

AN ALL COTTON WOOL PRODUCT OF REPUTE

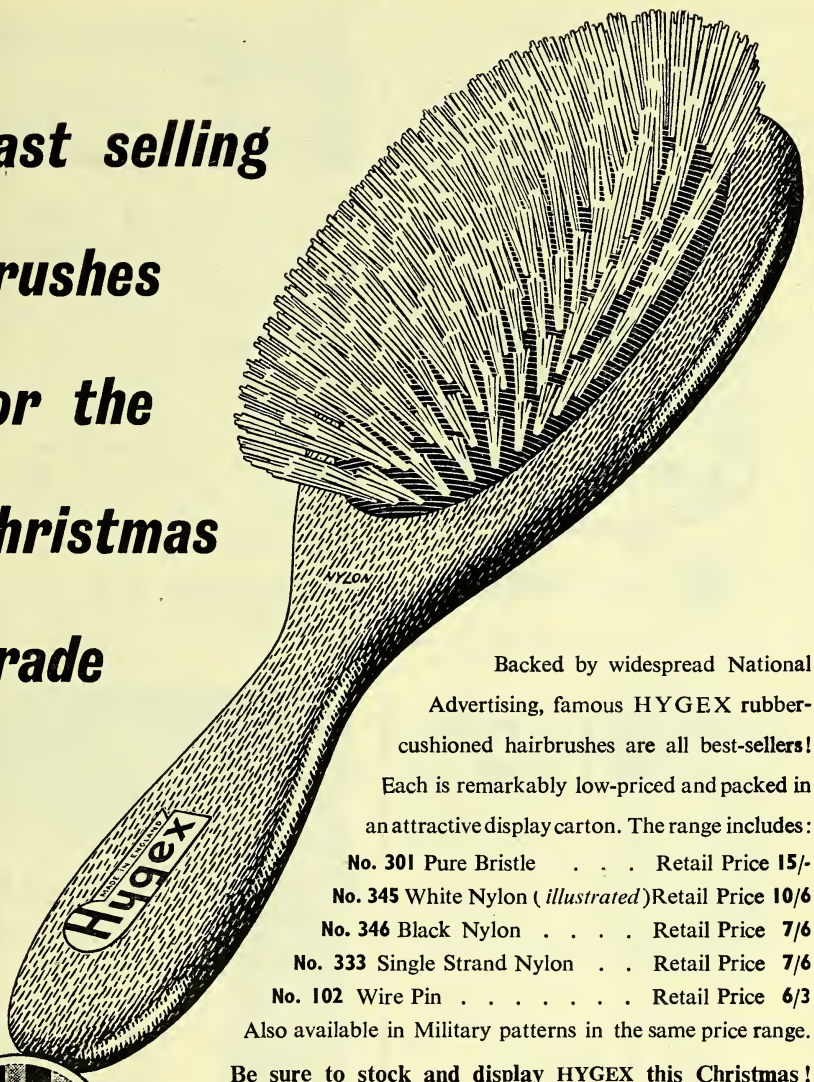
Consoluxe (Registered) Patent No. 410702

SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS

LOOPED ENDS
NON-ABSORBENT BACK
WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

Fast selling brushes for the Christmas Trade



Backed by widespread National Advertising, famous HYGEX rubber-cushioned hairbrushes are all best-sellers! Each is remarkably low-priced and packed in an attractive display carton. The range includes:

No. 301 Pure Bristle . . . Retail Price **15/-**
No. 345 White Nylon (*illustrated*) Retail Price **10/6**
No. 346 Black Nylon . . . . Retail Price **7/6**
No. 333 Single Strand Nylon . . Retail Price **7/6**
No. 102 Wire Pin . . . . . Retail Price **6/3**

Also available in Military patterns in the same price range.

Be sure to stock and display HYGEX this Christmas!

Order through your usual wholesaler.

Hygex

GOOD BRUSHES
PEOPLE CAN WELL AFFORD

SOLE MANUFACTURERS: HENDERSON BROS. & CO. LTD., PALLION ESTATE, SUNDERLAND

Still the most reliable remedy for Rheumatism

For nearly 40 years Curicones has been kept abreast of medical research. With its present formula, it is certainly the most reliable general remedy you can recommend to Rheumatic sufferers.

And its advertising is never allowed to get in a rut. Now that it is being stepped up in volume, watch Curicones sales begin to grow. Never let yourself run out of stock of either the 5/6 or 26/5 size.

We still have small supplies left of our novel " weather indicator " showcard. It is most effective and surprisingly accurate. Send us your name and address for one and see the interest it attracts.

CURICONES

AND P.A.T.A.

STEPHEN MATTHEWS & CO., LTD.,
19/21 Farringdon Street, London, E.C.4

'SURCO'

RELIABLE

ELASTIC HOSIERY

(SEAMED and SEAMLESS)

SURGICAL BELTS
TRUSSES & SUNDRIES

are backed by sound experience of over

50 YEARS

... if it's SURGICAL SUNDRIES ... it's a safe rule to send your enquiries first to :—

SURGICAL HOSIERY Co LTD
Russell St. NOTTINGHAM
Phone: 75903 Grams: SURGICAL NOTTINGHAM

Femex REGD.

SANITARY TOWELS

for Perfect Reliability

HIGH QUALITY
NON CHAFING
HIGHLY ABSORBENT
In various sizes

WILFRED STRETCH & Co.
LIMITED
CASTLETON · ROCHDALE

Telling millions



about

Zoflora

Perfumed **DISINFECTANT**

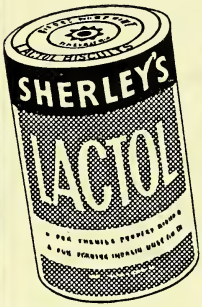
Zoflora, the spray-disinfectant, is now advertised in popular "home" magazines with an estimated readership of 16,300,000. This is making custom for you, because each advertisement directs housewives to their chemist.

May we send you a trial order and show material?

RETAIL: 2/6 per bottle
Complete Spraying Outfits, 12/6 and 30/
TZ 22 *Usual Trade Discounts*

THORNTON & ROSS LIMITED
LINTHWAITE LABORATORIES · HUDDERSFIELD

SHOW! SELL! PROFIT *by these 4 Sherley winners*



SHERLEY'S LACTOL
Retail prices 3/6 & 10/6
Kennel size 37/6



SHERLEY'S YEAST TABLETS
Retail price 1/9 per 50
5/- per 300 tablets



SHERLEY'S Tapeworm Tablets
Retail price 1/9 per pack
(12 tablets)



SHERLEY'S Roundworm Capsules
Retail price 1/- & 2/-
per packet.

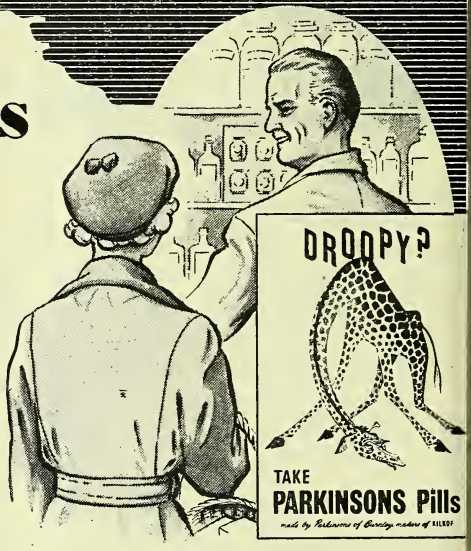
GOOD STOCKS MEAN GOOD PROFITS

A. F. Sherley & Co. Ltd., 16/18 Marshalsea Rd. London, S.E.1

"A bottle of PARKINSONS PILLS please"

Do make quite certain that you can supply what the customer asks for. And people are always asking for Parkinsons Pills—just as they ask for Kilkof during the cough season.

The new "Droopy" National advertising campaign will give fresh impetus to their demand. Give them Parkinsons, satisfy them, and profit from repeat sales.



PARKINSONS LTD. MANUFACTURING CHEMISTS, BURNLE

C.V.B

CARR'S VITAMIN B_1
PREPARED WHEAT EMBRYO

A RICH NATURAL SOURCE OF VITAMINS B and E

TWO SIZES
1/9 or 3/-

Trade 16/- doz. or 27/- doz.
FREE NON-RETURNABLE CARTONS

From Principal Wholesalers or from the Manufacturers

CARR'S CEREAL PRODUCTS LTD
CARLISLE

We invite your enquiries and orders for
DRUGS, GALENICALS,
TABLETS, OINTMENTS,
CITRATES, BROMIDES,
HYPODERMIC NEEDLES,
CLINICAL THERMOMETERS,
SURGICAL PLASTERS,
SURGICAL DRESSINGS,
HOT WATER BOTTLES,
CHEMISTS' SUNDRIES,
at competitive price

BIOREX
LABORATORIES LTD.
WHOLESALE AND MANUFACTURING CHEMISTS
51 EXMOUTH STREET, LONDON, E.C.1
Telephone: TERminus 9494 and 1431

Post orders executed promptly
Daily delivery service in the Greater London Area

He must have the best . . .



. . . and *he* knows

that the best is NYLON.

Clean and hygienic,

NYLON denture brushes

never go 'soggy'

or lose their resilience.

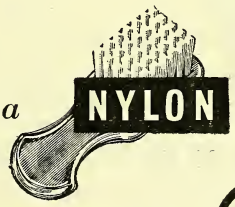
NYLON brushes look well,

sell well

and give lasting satisfaction.

There is no better brush

than a NYLON *brush*



IMPERIAL CHEMICAL INDUSTRIES LTD.

LONDON, S.W.1

ICI

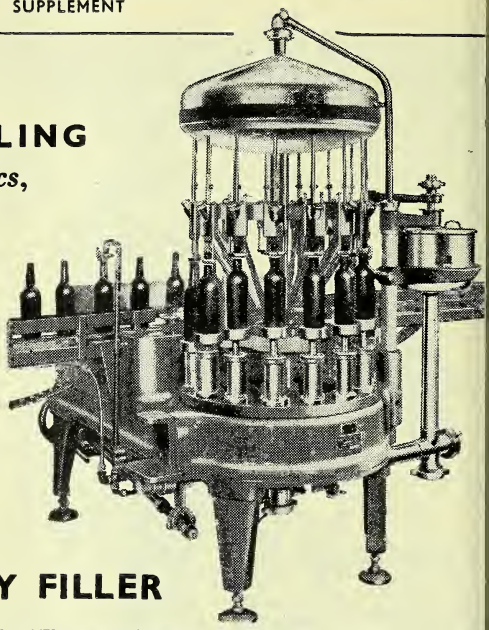
I.N.113

FAST . . .

FOOLPROOF FILLING

for Medicines, Antiseptics, Lotions, etc.

- ★ Fully Automatic
- ★ Foolproof valveless vacuum-operation
- ★ 15 Heads—Output up to 100 bottles per minute
- ★ Full details on request

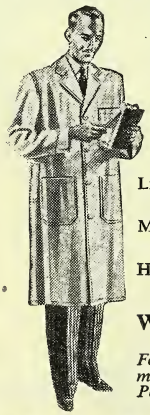


ALBRO

VACUUM - OPERATED

15 - HEAD ROTARY FILLER

ALBRO FILLERS & ENGINEERING CO. LTD., Wharf Road, Ponders End, ENFIELD, Middx.



Overall Value

WHITE COATS

Light weight	34"—46"	.. 27/10
,, ,,	48" & 50"	.. 34/-
Medium weight	34"—46"	.. 29/9
,, ,,	48" & 50"	.. 36/6
Heavy weight	34"—46"	.. 32/11
,, ,,	48" & 50"	.. 38/5

White Jackets 36" to 46" 23/9

For post orders please send chest measurements and 1/- extra for Postage and Packing. Prices subject to fluctuation.

GARDINER'S

1, 3 & 5 COMMERCIAL ROAD, LONDON, E.1

(Opposite Aldgate East Station)

Telephone: BIShopsgate 6751/3

Gardiner & Co. (The Scotch House) Ltd.

FOLDING CARTONS, LITHO and L'PRESS

RIGID BOXES, PLAIN and FANCY

PACKS FOR SPECIAL PURPOSES

DESIGNERS AND PRINTERS

1842 • 195

One hundred and nine years of service

J.S & W

The Packagi Specialists

JOHNS, SON & WATTS L

2-4 EPWORTH ST. LONDON, E.

Phone: **MONarch 7408**

(THREE LINES)

CORK LINED SLEEVES

CORRUGATED PULL-THROUGH BOXES

Compressed Paper Packing Limited

Horton Road - West Drayton - Middlesex

Telephone: WEST DRAYTON 2237

Nationally advertised



Prepare NOW to meet Public Demand for WHITECROFT Products

SUPERGRIPS. The GRIP that HOLDS. Made from high-tensile steel, super finish. Black, Brown, Grey and Tortoiseshell. Strikingly coloured card.

WITCH HAIRPINS. The Hairpin that "STAYS PUT." Treble japanned, rounded ends, distinctive pack. Standard gauge 2", 2¼", 3". "Invisible" 1½", 2", 2½". Black or brown.

THE WHITECROFT PIN MANUFACTURING CO. LTD.

WHITECROFT, GLOUCESTERSHIRE Tel.: Whitecroft 308 and 309

DOUBLE PROFIT—

ON EVERY JAR OF CHILDREN'S

MUSTEROLE BRAND

Every sale brings you *more than twice the profit* of average priced vapour rubs

Every time you sell a jar of Children Musterole you *make more than twi the profit* you get from selling a average-priced vapour rub.

Work it out and prove it for yoursel Children's Musterole brings you profit of 11/8d. a dozen. Now che that against an average-priced vapo rub and you'll see at once — *mo than twice the profit when you s Children's Musterole.*

Children's Musterole is extra mild - the ideal *all-purpose* rub for che colds, sore throats and oth purposes. Musterole advertisemer are kept before nearly 16,000,0 people every month.

Keep it on display all the tim

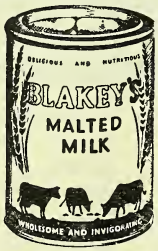
Distributors: **Thos. Christy and Co., Ltd., North Lane, Aldershot, Hants.**

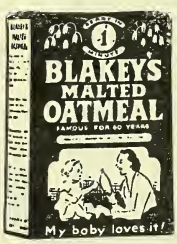
TWO WAYS TO HEALTH—

Blakey's Malted Milk

A delightful and nutritious drink whether made with water or with milk. Aids digestion and encourages deep refreshing sleep.

1 lb. tin 3/11





Blakey's Malted Oatmeal

Known for 60 years as the ideal cereal food for babies and invalids and enjoyed by the whole family.

½ lb. carton 1/2
1 lb. tin - 2/6

★ COMMENCING 1952 ★

Eight leading women's magazines will carry advertising to help you sell B.M.O and B.M.M.

BLAKEY'S FOOD CO. LTD., LINCOLN

A WORD TO COUNTRY CHEMISTS

WE, Radiol Chemicals Ltd., are receivi letters daily from users of Radiol Vet inary preparations requesting supplies be sent direct as the local chemist does r stock. Obviously many sales are lost to *both* due to this. Radiol Preparations Radiol, "B-R," Vi-Minerol and Cani Vi-Minerol—are advertised regularly in wide variety of periodicals, includi Country Life, The Field, Our Dogs, a Horse & Hound.

It is our policy to direct sales to t chemist wherever possible and genero terms are given. Please write for details a samples if not already stocked. Attracti show material sent on request.

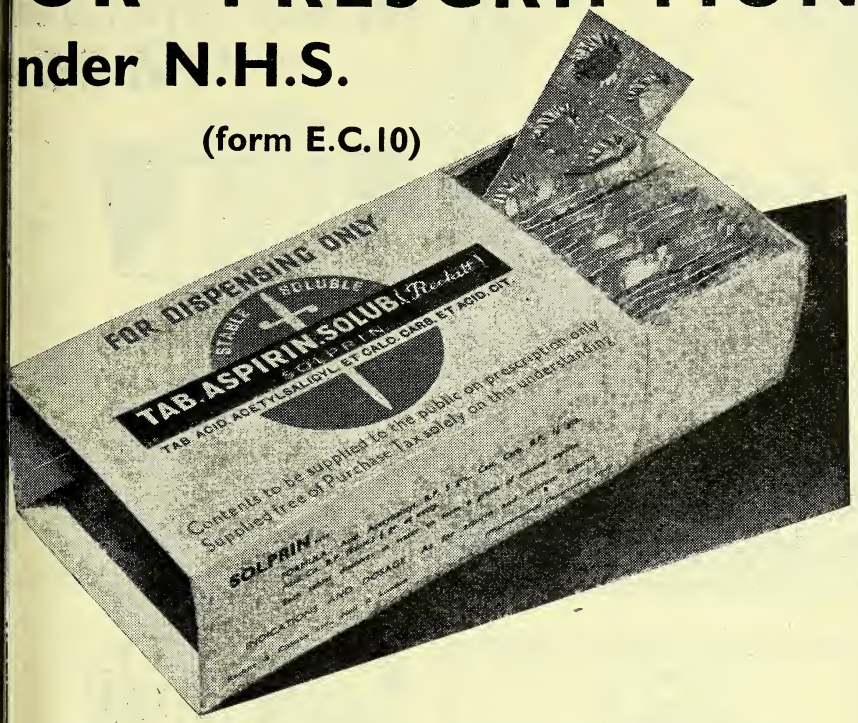
Radiol CHEMICALS LIMITED

78, UPPER RICHMOND ROA LONDON, S.W.15

OR PRESCRIPTION

nder N.H.S.

(form E.C.10)



RECKITT & COLMAN LIMITED announce the introduction of 'Solprin', a soluble aspirin for the dispensing of prescriptions. Solprin is not advertised to the public.

The problem of prescribing calcium aspirin free from decomposition products is solved. Solprin, a stable preparation in tablet form, combines the convenience of aspirin tablets with the therapeutic advantages of pure calcium aspirin. Its analgesic, sedative and anti-rheumatic properties, and the fact that even in large amounts it is unlikely to produce gastric disturbances, have been confirmed over a period in clinical trials carried out in leading hospitals.

The SOLPRIN prescription pack contains 300 tablets, air sealed in foils of 6. Price 7/- per box (free of P.T.)

AVAILABLE IN THE U.K. AND NORTHERN IRELAND ONLY

M&W
for
Better Value

PILLS
TABLETS
CAPSULES
LOZENGES
SUPPOSITORIES

Quotations on request

MATTHEWS & WILSON LTD.
EST. 1899
6-8 COLE ST, LONDON, S.E.1.
TELEGRAMS: PILLEOLUM, SEDIST, LONDON · PHONE: HOP. 2147-8

A GRAND
COUNTER ATTRACTIO
-and FREE!



This attractive Disp
Outer comes free w
every dozen lot
Besorbon medicinal snuff. Give your us
wholesaler a trial order for this all-year-ro
preventive remedy for Hay Fever, Colds
Catarrh—backed by national advertising, B
orbon sells on sight! Put it on your coun

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Remarkable for the Treatment of Burns, Spots, Rashes, etc.
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are pleased to announce that, although the volume of seasonal business has been greater, all orders have now been despatched.

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. . . OR STOP AND LOOK?



Clean, sparkling windows make a shop look smart . . . and passers-by can see the goods inside clearly. Give your goods a fair deal—use Windolene on windows and showcases and see how brilliant and clean your glass comes up!

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WINDOLENE *cleans windows like ma*

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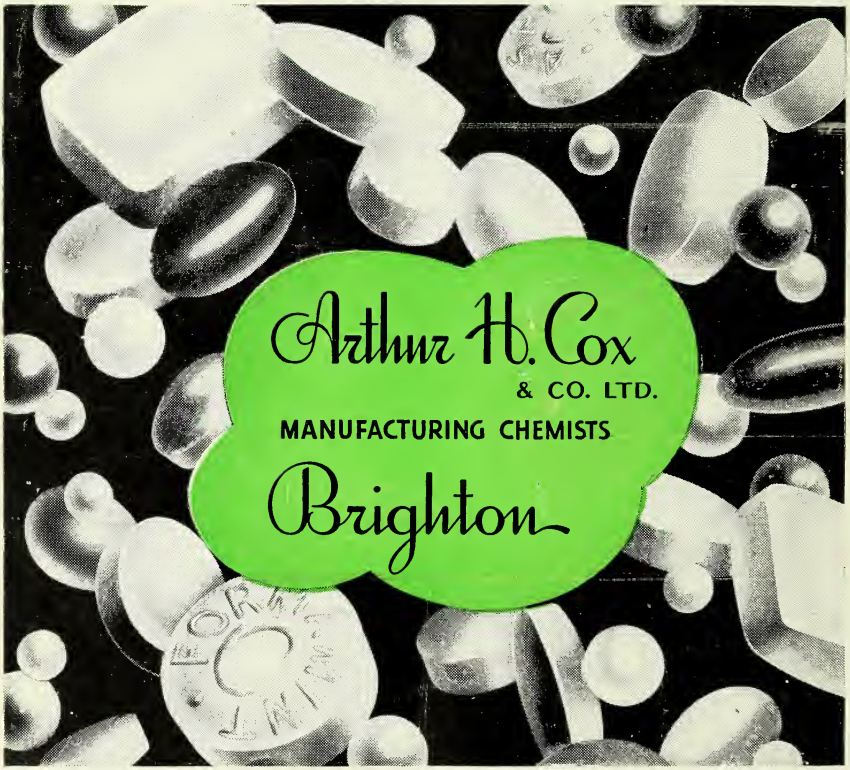
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The CHEMIST AND DRUGGIST
DECEMBER 1, 1951

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